



Carroll W Dodge



mycological notebook

consisting of field notes, observations etc. discussions of the literature of species collected as well as tables, keys, etc collected from sundry sources.

by

Carroll William Dodge A.M.

Volume One

June 1917 - March 31,1920

June 10,1917. 1001-5. Very late spring. Has rained for several days, including today. at saphouse discovered a large quantity of 1002 a pile of chunks. at first thought it one of Tremellaceae but the presence of amoute papillae raised question as to its beingan immature pyrenomycete. Observe further Many pyrenomycetes abundant, some perhaps in the condia stage as they were primose. a Seprota 1003 and Collybia 1004 and a small amount of Coprinus meaceus ?) only agaries seen. Polypous sanguneus (?) seen, not collected. One of Pezigaceae 1001 and a rust on gooseberry (?) in swamp 1005 complete collections. June 14,1917. 1006 Favolus canadenses Klotsch in sense of Fries. This specimen is squamulose and fibrillose, ferruginous in center of larger oporophores. G. distinction between F. suropaeus 4 F. canadensis in Fries Epicrisis 498-9. 1836-8. Overholts thinks they are synonymous, the I europ. forms being older stages. See if field observations will corroborate this.

- June 13.1917 1007-1014

Jungi found growing among grasses in front of shop on either side of partially rotted plank. One they different stages of the same. Some specimens like # 1009 were left for collection later to see if they develop into fungi like 1008. Collected some resuperate fungi from the bottom of an old brush pile (Others, Betulate on the way after the cows.

fune 14, 1917 1008a, 1015 \$ 1016 Ramed the greater part of the day. Collected a disease on arisainis triphyllum (S) Schott. (#1015 Uromyces Calladiischw) Faul. May be connected with insects as red lice or scale insects = were invariably present on diseased leaves, causing a very marked mottling such as occurs in mosaic disease of tobacco, specimens like 1002 were p white pruinose, drying down gradually noted tonight, 1008a specimens left to develop from the 1008 collection collected. One of Pezizaceae, one of agaricaceae and two polypores wited in quantity. also Polyp. hirsutus, Formes applanatus noted, causing decease Decay of Acer, as also the sterile stroma of Ustilina (?)

specially on an Id stump which bore Coprinus

micaceus the early part of the preceding number.

June 22, 1917. 1019-1020, 1022-1023.

Weather has been pleasant for the past few days,

all the fleshy forms noted June 14 and not collected

have dried or disappeared. Noted one of Bulgariacea

two or three Thelephoraceae of two or three of the

Polyporaceae which I couldnot collect without a

knife.

June 23, 1917, 1024-1028

Pleasant weather. Cecil collected this morning, brunging in two specimens of Boletus scaber (#). Both were infested with larvae.

Oxidase action strong, where I split the stipe, fleshy was white turning slightly greenish, then brown, about the color of a campestris after ground up for engyme extraction. Turned gray on drying. Does this color change hold true for the whole species or in the variety which has been named from this character?

Also a beautiful punk fungus with thick

lamellae which tear very easily into two plates. He also brought in an immature Fornes, and some Polystictus like specimens On trip tonight collected an Irpex, perhaps apolypore, which was noted in fresh condelion June 14, 1919. Only a portion was collected. a beautiful orange red agaric (Mycena leiana?) collected, perhaps penk spores. Several specimens of a Stemontis noted on dead wood. Also a fallen beech with pyrenomycetes abundant, and a fallen branch tree with lichens (crustose) which I did not stop to examine closely.

June 24,1917. 1029 - 1036.

Ramed all day. Collected only a Favolus of Boletus variables var pallidipes Pk. (#

Is there any connection between Boletu of young birch woods? Saw and scompacte, bught red, a few stray agaries and two or three Sterea which show up better after their soaking, Streta pulmonaria of S. amplissima very abundant and Conspicuous also one or two Stereo caulo and Ramalinae

The black gelatinous fungus on the wood pile at The saphouse is soaked up but not so large of fresh looking as formerly (#1002) noted Daedalea quercina? on Juglans cinerea log. fune 29, 1917. 1051-1060. 7051 Boletus scaler has white flesh. The cap, then the stipe more slowly turns from punk to brown then to nearly black The tubes gradually followithe same color change The outside of the stipe green where eaten symmetry a rainy day. Collected on the side of sugar woods facing east. Incholoma grande abundant, also Hygrophorus chlorophanus Ir, & saw a especimen of one of Bulgariaceae or Stilbaceae which I could not sollect owing to lack of jack benife, Saw Fuligo O several pyrenomycate or their imperfect stages. Saw a Tomes Jap. with white pores resuperate onend of log which might have been mistaken for a poria but for the narrow pleus at the top. July 5, 1917 1061-1062,

Two agaaries from north of Mrs Wood and house

One paypore from a to spruce stump. Saw a Pleurotes

ous

ie

not ostreatus, Polyporus versicolor and other polypores which I did not collect.

July 7, 1917. 1077-1083

Norain for a week, Saw Tucholomagrande
(1) but too dried and insect extento collect.

young pile's of Polyporus peremis or

cumamoneses; scattered, partially dried

specimens of Hygrophorus chlorophanus;

collected Plaurotus ostreatus to ext.

Boletus decorus (#1077) would be an interesting one to work out oxidases and chromogens when cut in two the stipe has a deep red brown color occurring in spots which in the lower part jum together

to form a solid.
color. The tubes
turnagreensh
hue on being cut
which color greeds
nally migrates
toward the top
of the pileus. The

Boletus decorus [natural size] red brown dots appearson the flesh and a very thru layer of red brown appears just under the top of the pileus. Collected three specimens of varying size, probably Tricholomata, the smaller of which was areolate all over with the stipe, covered with long are des dried and turned up at the end the another with only the discomargin and stipe and the larger umbilicate with only the margin beginning to be areolate. Can these be varieties, or different stages of the same species? They were found growing, not more than two rods apart on ground among grasses, under the birches on the top if the town lot.

July 8, 1917 1084-1088

Stell no rain, saw Hygrophorus chlorophana usually dry, a few lemonyellow and a few bright red pilei growing among them.

Boletus scaber varalutaceus. # 1084 is notable for having a shorter stipe, and for its flesh not turning brown very rapidly the stipe turning very slowly, the stipe being only clay color on the upper end after all

notes taken and this written. There is a thin layer just inside the outer covering which is already an instense black. What is it? Hygrophorus conicus Scop ex Fr #1087. Is this a connecting form between H. conicus and H. cuspedatus Pk. Itake it from murillo descriptions that H. cuspidatus differs only in not blackening, of which however he does not state in his description, and in the more slender glabrous stype. Sook up Peck's original deseryptron and see if there is any real difference elsewhy should it be confined to its original collection & log locality, are his apore measurements reliable? The My specimens blacken have a short stipe which is thicker than H cusp. Intlooks nearly glabrous. These specimens are as small as H. cuspidata agareus comeus Scop H Carned 2. 2:443.1772 Hygrophorus " Fr Epic. Myc . 331. 1838 . Hygraphous cuspidatus Peck Bull Jorn Club 24:141. 1897 see also Murill Nam 7 9:379, 1916.

July 11,1917 good soaking rain July 12, 1987 1917 1089-1092 1089 Boletus versipellis Fr. This speciesen certainly has the marginappendiculate and turned under, but otherwise does not be seem distinguishable from Bolelus ocaber. are they distinct? Fries in his Epicrisis 424. contrasts sicco primo with udoviscido of B. scaber and velo membrano, anulari infless appendiculato with margine continate of B. scaber. He inquired whele Biversipellis has "sporidia rotunda" as painted by Schaeffer t. 103. He states B. scabii certe fusiformia. Gr Rollevoulty aprid Clus. Hist. p. 284.

rei

Murilleites Breroipellis as a synonym with a question man.

1071 Collybia floceripes 72? Epic 87. color of pileus does not agree, not umbonate. Umable to identify by Murrill's keys. smaller.

another species lam mable to identify
by Murrill's keys, by Cooke to Dielet on Fr.
) was unable to decide whether it belongs
in Simacina or Hygrophana.
Cecil brought in a specimen of Polyporus
cumabarina nearly as daedaloid as
a Daedalea but the pores are very much

July 13,1917 1094-1113 1128,1129
1096 Boletus calopus? has color beaction
reactions like Boletus decorus p.10, and
perhaps is that species. Item not noticeably
reticulated.

1111 a very curious saddleshaped discomycete 1109 destroyed by insects, number used over. July 15, 1917 1114 Muturus brought in by papa from saphouse, the outer owelop not collected round hard in the late F.M. July 16,1917. 1115-9. noted several cases of mosaic disease. Cecil brought in some Fomes applanatus. Collected four forms on way back from swimming pool, Tricholoma and Collybia, It seems strange I should not fine annulated strong or decurrent lamellae and spore colors other the than white. Found one ferrugemous today and two strophariae. Collected what Despect is a Mutinus egg and placed it in light moist soil to see if it will develop. Noted some more like #1008 and 1009 growing in the same place collected July 17, 1917. July 17, 1917. 1120-1127; 11.09, 1130 Mamma collected one of the Xylariae while feeding hers. Cloudy today, round just at night Collected some in sugar woods, also another Mulinus from some place as #1114. Perhaps some have colored sports.

fuly 18, 1917. 1131-1137. # 1/31 Boletus subtomentosus. Very little color change. Was this because they were put in the refregerator worth morning before they were identified. # 1136 Collybia radicata Rehl (Relhamer Fr) This specimen has slightly decurrent lamellae as also the MOT which was destroyed. Should this not be placed with Clitocybe. See spores. les Chitocybe medalospora Clements Bothuro Mebr 4:18. 1896 a synonym. Who is authority for C. radie. Organicus (collybia) radicatarot. Syst Myc 1:116.1821 Fr. Epic Byst 81. 1838 Free separates Egilongipes Bull. Herbit pl 232 1784 from it in Epic Syst Myc. 81, 1838 for white specimens. Founda spec of longipes pure white. smaller, younger and extremely viscid. They seem

to me distinct althe they dry alike.

July 19, 1917 1138-1141 1139 and 1140 were collected near each other May be the same thing July 21, 1917 1142-1143. Dry yesterday, to rained some last night. The mutinus specimens both have developed, but was to busy with hay yesterday to them of them July 22, 1917 1144-1176 except 1163. Rained a little yesterday. 1168 probably the same as 11 67 as twas collected on the same side hill. Clavariae give much trouble on drying, bleaching and staining the flue tissue paper, staining the labels and obliterating the ink. July 24, 1917 117.7-1192 Is 1177 a young Boletus infested with a impromycete- It hardly seems to be one of the Pulverulenti. If it is, it is B. Ravenelle B+C. or auriflammens BtC. 1178 Flesh sky blue, tubes blue green, The color of the flesh appearing slowly and disappearing slowly. The Flesh tubes appearing rapidly and disappearing slowly.

Have found several decayed Boleto enshrouded by a white mycelium Collected one a little firmer than the others. is number. Study.

1190 and 1191 both Seprota were collected about three feet from each other and may be same species. # 1192+1193 both Myromycetes were collected near each other (about 2 in apart).

Myxomycete plasmodia are very abundant in the "woodard" woods.

July 25, 1917 1198-1199

July 26, 1917 1163, 1200-1213.

#1202 a Cantharellus shows reticulated lamellae suggesting the genus Meralius.

July 30, 1917 1214-1230.

Trip around Jadmer hill, collecting mostly Russulae. Rained yesterday.

Notes in 1225-1230 written up next morning when specimens were less fresh.

Ang 1, 1917 1231

Cecil brought in a Chtocybe, very hot weather.

august 2,1917 1232+ # 1232 was collected near the spot where an agaricus weeth'a very thick annulus was collected a short time before (In this however the veil seems thicker and more firmly attached to the margin than to the stipe. Is this a Hypholoma? Ilight sprinkle yesterday, hard shower today found very little to collect say saw one sp scarcely beyond the buttowstage, The buttons were arranged in two rows at right angles to each other, each about 3 feet long but note forming a rung as far as I could detect. ... will try to collect tomorrow. Founda peculiar growth like a cedar apple but firmer on a wild Rosa Sp. Collected two other agarics unable to write up, so destroyed. Oc august 4, 1917 1233-1234. Collected remains of sp. mentioned above in button stage (#1233), Most had been trampled. Collected Thelephore on cornstalks. # 1234 August 8, 1917. # 1235, 1236 Boletus scaber var niveus according to Peck. Ceriomyces viscidus (S) Murr. Namit. 9:139. where he gives among the synonyms Bolelus niveus Fr. OBS. Myc. 1:111. These specimens do not change color when wounded. Should this be regarded as disting Sook up above reference to Fr. also see what sace, has done with B. nivens. The five was low and the specimens decayed before they dried, see p. 24, ang 9, 1917 1237 Very rainy day, Wentthru the woods and ded not see any annual forms. mumbered a few speamers collected in previous years. ang 21, 1917 1238-1247 Rainy and cold for the last 10 days have had headaches, Collectedan ambiguous spec today with lamellae all the way from light punk to dark brown, It seems like an agaricus

In connection with # 1242 cf. R. purpurina

and R. uncialis tasteruld.

EAST.

#1245 seems to fit Russula ventricosipes Ph. Except size and stipe character.

ang 24, 1917. #1248 Boletus purpureus Fr. I cannot seem to locate this name in murill. The description of it as given is Peck fits fairly well except there is no trace of purple in the stipe color and no reticulations noted. The extreme rapidity of color change from yellow to bottle green is very noticeable It is also curious that an area in cross section at the base of the slipe turns only after a minute or Two but be comes much blacker gradually the color fades on the action of strong light. The top of the

pileus stains paper a light green

X natural size

avery rainy day. Cecil and David brought in two lots of fungi, Those known were dried at once as usual. Notes were taken on a few, the rest were taken to St Souis wrapped in tissue paper in my collection basket.

Sept 17, 1917 # 1155

Compared Boletis. Very unsatisfactory to compare dried material. In connection with #1155 Boletus chrysenteron, unable to determine more than before. In this romnection B. chrysenteron albocarneus Peck 1900 fits these specimens except he states that the flesh is constantly white except mean cuticle where it is red. My field notes say slowly changing to blue when wounded.

Boletus niveres Fr Obs Myc. 1:111. Sacc gives:
Boletus scaber [var] E piles omnino albo: B. niveus
Fr Obs I p111 cum forma aeruginea Obs II p. 260, B.
holopus Rost. t 48 Cfr Weinm p 303 Clus Pern
gen IX spec 2.

Peck says: Boletus niveus Fr. sandy soil ...

yates, Harry S. Comparative Histology of Cortain Californian Boletaseae Univ. Calif. Pub. Bot 6:224, 1916. This has by some been considered a white variety of Boletus scaber Fv. I tappears to us. to be worthy of specific distinction, for it differs from that species not only in the color of the pileus but also in its smaller size tubes and in the character of the stem, which is adorned with mere scurfy or appressed squamules instead of the conspicuous dot-like fibrous scales of the stem of B. scaber.

Peck C.H. Rept St. Bot 1907 ny St Mus Bull

122:17.1908 plate 1/3.

Field notes of 1235:

Boletus niveus Fr [B. scaber var niveus]

preus white weekenging tubes free, white,
white, unchanging tubes free, white,
stipe fibrous cartifaginous white without
punctate squamose as in B. scaber
On earth in swamp, Jadmer area, Pawlet, Vt.

CWD.

aug 8, 1917

1015 Uromyces ari-triphylli (Schw) — teste arthur man #7:33, accidium Caladii Schw. Sch Mat Jeo Serpgig 1:69, 1822

Caeoma (accidium) dracontronatum Schw Transam The Soc Priccinia ari-triphylli Schw. Trans am Philocoff 4:297.1832

Caeoma (accidium) aroidstum, Schw Ibid II 4:309.1832

Uromyces Peltandrae Howe Bull Jorr. Bot. Club 5:3.1874

Uromyces ari-virginici Howe Ibid 5:43.1874

(Caeoma (Uredoari virginici Schw. Jiansam Philocoff 4:297.

Uromyces arisemae Cooke Bull Jorr. Bot Club. 6:321833

Uromyces Calladii Farl; Ellis M. am Fungi 232.1879.

Nigredo Calladii (Schw) Arthur Mam Fl. 7:236.1902.

Sacc. Syll I: gives Uromyces Calladii (Schw) Farl. and accidium dracontii Schw as separate spp. citing Cooke Handb. Brit Fungi 2:15538.1811 #1611 as authority for apelling for as. Dracontii instead of Dracontionatum as Schw spelled it. In Dacc. Sylf 21:582.1912 he divides U. Calladii (Schw) Farl into U. ari virginici (Schw) Howe and U. arisaemae Cooke, the U. Calladii being improper onacct of Int Rules.

Sydow Mon. Ured. 2: .1910 recognises U. arisaemae, U. arivirginici and U. peldandrae. Howe

arthur 1 am Fl 7: 236.1912 lumps all the above under Magredo Calladii (Schw) arthur. Study further to see if the contrast in the descriptions which follow well hold.

2861.51 C. A Cracontionatum S. v. S. frequens in folio et petiolis etiam scapis ari Dracontii Bethl. Non idem cum priori [CA Aroidatum S v. S. Syn Car 457.] Etiam Salem.

C. maculis pallidis late entensis plenomo que per totam foliorum superficiem v. magnes, timpart in folio, fere totum saepe occupantibus. Pseudoperidiis magnis oparsis crebris, sine ordine in macula dispositis. Sporidiis aurantiacis

Wromyces arisaema Cooke (Sacchyll 21:)

... aecidiis hypophyllis sine maculis

plerunque per totam foliorum superficiem

v. magnam eius partem aequaliter distributis

minutis breviter cupulatis flavis margine

inciso; aecidiosporis angulato-globosis

v: ellepsoideis minute verrucosis, hyslinoflavidis 18-26×15-21... Hab in foliis

Arisaema Diacontii, macrospathi

triphylli in America boreale et Mexico.

Christman figures Monyces arisaemae Bot gaz 39: pl 8 fig 13.1905 Collation of Karsten, Symbolae ad Mycologiam

I notiser ur Sallshapets pro Fauna et F. Tem. Förhandlingar 187,68

II Soc. pro Fanna 47. Fennicagy: 54-59. 1876 (Helsingfors II Ibid. 2:171-18.3.1878, I stid

II Soc protauna et Il Fennicam. Meddelanden 5: 15-16.1880

III-VIII) bid 6:1-6.1881, 6:7-13.1881.

IX-XI Shid 9: 39-56.1883; 9:57-67.1883; 9:68-71.1883

XII Stid 9:110-112.1883.

XIII-XIV Slid 11:1-20.1885; 11:21-27.1885

XVP

XVI Soc pro Fauna et 7 Fenn. Meddelander 11: 148-161.1985

XIII 9 bid 13:159-165,1886.

XVIII -XXX 9 bid 14: 78-84. 1888; 14:85-14. 1888; 14:95-102. 1888

XXI-XXII) bid 14:103-110.1888;14:147-152.1888.

XXIII - XXVIII I Ibid 16:1-13.1888-91; 16:14-19.1888-9/

16:20-26.1888-91; 16:27-32.1888-11; 16: 33-36.1888-91

16:37-45.1888-91. XXIX 16:84-106.1888-91.

IXX 9 And. 18:61-68.1891-2. XXXI 18:69-74.1891-2

XXXII acta doc pro Fauna et Fl Fenn 9:1-11.1893.

XXXIII lbid 11:1-11.1895

Mycologia Fennica

Pars prima Discomigetes. Bidrag till Kännedom al. Flent Finlands Natur och Folk utgifna af Finska Vetenskape Societeten 19:1-263.1871. Pars secunda Purenomycetes Ibid 23:1-252.1873. Pars tertia Basidiomycetes Ibid 25:1-377.1876

Para quarta Hypodermii, Phycomycetes et Myxomycetes Ibid 31:1-144. 1879 Specimens of Hymenogastraceae in Mo. Bot Gard Herb.

Gantiera graveolens Thiim Mycoth Him 12. also story of exhert. P. Magnus unter Picea excelsa bei Ersleben, funi 1875 leg. J. Kuntze. MBg H 5637.

Hydnangium carneum 7 him mycoth Univ. 109 sevel also exhert Hó. Schrenk Bot gard. Cambridge, Mass. Feb. 1894.

Hymenogaster cerebellum Cavara Fung Song 169
citrinus Berkeley Brit. Fung 284 OK
Klotzschii Kab. Fung Eur. 142. (1860).
*Lilacinus Berkeley Brit Fung. 305

*populatorum Berkeley Briting 304
meg 5650
tener. Rabenhorst Fung Eur. 1320 (1869).

Melanogaster Broomeranus Berk. Brit Fung. automice

MBg. 5646

Dwariamus Kalels. in 1846. Park Windert. Eur. 3431.

variegatus

exherb. Hollos

MB9. 5644

* published as type of H. tener.

* unreliable packets said to contain H. vulgaris & H. tener

Tul 7. Hyp. 68; Berk. ann Mag Nat Nest 18:74.18464 said to be incorrect by Tulgane 74. 66. - P. olivaceus

Octaviania Stephonsii Rav. Jung. Carol 2:71.

Fung am. 16 Ellis M. am Fung 1211.

var Ravenellie Cartis B&C.

Carolina australi Nov. 1853. M.A.C. (mag 5643)

Octaviania rosea Harken. = arcangeliella rosea (Harken) 3.+ B.

Tructifications globose to irregularly lobed 1-3 cm is (Harken) now Dec 1917 0.6-0.8 cm in diameter pale rose (Hakken) dark reddish brown now.

fibrils small black innate inconspicious. septa peridum thin 40 mithick tawny gelatinged so that stricture not recognizable, fragile.

gleba tawny, cavities large ampty irregular septa cavities of rough large loosely woven gelatinging septo

basidia cylindric to slightly clavate 37.5 × 10.

werricose, with swollen sterigmata 6-8 pc.

spores globose hyaline with wall 3 pc thicks

schinate with short, pointed spines, 14-17 inside
diam. 20-23 total diam.

Specimen examined

California; near Santrancisco, HWHarkness in

Rabenhorst Winter Fungi Europaei 3238. Jan-apr.

Lin Ms Bot Gard Herb. 5638.

see additional note 1:142, 3:34,1921.

Study while at Sloyds,

Melanogaster specimens from Carolinas

especially Charleston S.C., where the type

of Hyperthiza, the type of the genus was coll.

all Rhysopogon spec. from Australia, Nzealand

Sweden Finnland, Bohemia, etc..

Is soon as Rhizopogon is finished, atudy

Gautiera in detail, then Hydrangium

vs. Octavania.

Study exough Hysterangium to be familiar

with the genus, How separated from

Rhizopogon and Melanogaster.

Hydrangium carneum

Fructification of ellepsoid to wregular, 8 x 1,3 cm when dry, cumamon now.

fibrils innate, darker

Juplex, outer and of loosely woven thinwalled hyphae

peridium 4-8 pm dram, 60-90 n think me more compact

smaller hyphae, tawny 160-200 thick.

gleba fragile

cavities abbose to ineqular, near ochraceous-buff.

septa 40 p thick dark tawny gelatinized fragile

basidia verrucose, hypline or slightly colored

mostly two spored. 15X pr with stengmata

tapering, 7.5 pulong. 2-4 spored

spores globose echinate medium walled 3-4 pr

from made of wall to end of spines, protoplasm

12 x 14 pm.

Specimen examined:

Massachusetts Cambridge, Botanic garden H. K. Schrenk (m. Mo Bot gard. Herb. 1607.) Feb. 1894. Gautiera graveolens Vitt.

Functification globose to somewhat inequals greatly flattened when dried. 2 cm in diam color from light ochraceous bould to Prouts' brown perdium wanting globa, ochraceous buff to darker, gelatinged somewhat cavities irregular to sublabyrenthiform.

septa 175 p Thich of interwoven gelatinized hyphae basidia broadly clavate IV 12×16 X 8-9.

family thick walled with 1 sterigmata 4-5 p long.

spores elliptic longitudinally ribbed 19 × 11-12 slightly colored.

Specimen examined germany: Brandenburg, Saxony, Rear Eisleben, Kuntze ex herb. P Magnus (in MoBotgard Herb. 5637.) June 1875. Bose's species are located in Padua Italy. (Harrot) Durand also may have studied these types.

anthracophlous rhizopogonoides Mattirolo, unknown whether destributed published or not. Sloyd Museum 12171 anthracophlous rhyopogy ance collection, we werd in journal in The just plant has a listing thick thinks periodium I mm which with externar por do the globa is white the cills and spores are semilar to Rhyopogon ruberins as is the print graphens its thick pendin I time I would have been much better of war included at in Khizopogon as te only difference is its relistively. Thick pourly Charles Gornor, Se Keelent Green Mauritus.

This collection consider of one died down bunefication and two years of. In served material, one containing of the other 7 fruit fic 1 ms.

Fructifications globose 1.7-3.7cm in diam. P. exerved sper news Hesnan brown with spots of Coral punts similar to mottling of R. maculatus fibrils few free somewhat branched, very prominent Hessian brown to parker gleba white, but cut surface does not extend super gleba white, but cut surface does not extend super mough some anget avery good ha of to texture.

Sloyd Museum 63709 Colletzione Mattirolo Melanogaster varregatus Vitt Rodero (Prov. di Como). [Italy] No 13. 04.1900 leg O. Mattirolo "This species is quite rare both, in this country.

"This species is quite rare both, in this country.

It is characterized by the abundant adherent,

Mycerial fibrils. Otherwise it is close to the

more common Mhizopogon rube scens

- Sloyd hote.

The Sloyd Subrary is located at 309 W. Courtest The Wholesale drug house of which he is a member on the corner of W. Court and Plum, and the Museum at 226 W. Court. The Museum is three storge. The ground floor being in EgSloydo cachelor agartment, with some of his books as saccardo et. The second floor contains a work room at one and separated by a generally & from the he barium. In the work room is a large table (4/1 years) filled with MSS and undetermined specimens, three aim chaire two of which are coaled with specimens. One side is all window ipace, with two small shelves to hold a microscope. The walls are filled with vools incept for

the freplace over which is a portrait of Masses with one of his letters, flanked by Ellis and _____. In either and of the door are portraits of Bresadola and saccardo.

The herbarum consists of woodenselving containing the boxes of specimens. The specimens are placed in some 6.5% 7cm varying indepth with the specimens those containing Rhizopogon being 2, 4,5 or 9cm. The boxes contain the sp plant name and pecimen number on the cover and sox this:

the following data, sometimes experienten, sometimes wester: number plant name, notes by Sloyd soon the species and the name and address of the person and fromobich the specimens were received. Data which came with the specimens such as slips with collectors numbers, he barium numbers and rabels, field notes it we loose on the boxes

with the specimens. The latter however are rare, showing that either the amateur collectors are not careful about such data or that it is is no see too carefully preserved.

The boxes of specimens are piled together, an attempt being made to keep genera together more or less, but not open larger groups. The user of the herbarium is at the mercy of Mr. Sloyd to find inaterial, of which there are thousands of executers on destrouters thru two floors of the building, Similarly The Looks on his shelves are arranged after no discoverable order but Mr. Sloyd com carry fund them. Norther soons of or whe size contents or of the same outhor are to or jound together. Harshberger slands between sprengel and a swedish dictionary and between between Harting & de Bary.

Serpgig 1:32.1822 state that Inder virens is found rarely in pine woods, Hope. Salisbury.

Sain Fung Mam. 220:

states that Rhizoposon virencis
found in Pennsylvania, plas. In the same
place he states that n. 2210 R. acitious fr
is found on Mt. Pocono, Penn. R. albus
found in Carolina July.

albertini & Schweining. Compact Tung husat

214. J. Luber verens nobis + VIII f.3.

J. majus difformil, filamentis in superficie sparsim decurrentibus, laxis, subreticulatum, extusa rufo griseum vel sordide spadiceum, intuse viridi cinerascens,

Defert ab antecedente 1, colore externo et praesertum anterno constantissimo; 2, reticulo filamentoso; 3, deformitate eximia; statura uttra duplum majore, atepluremum 2-3 unciali. His discriminibus unuxi fungum nostrum specie separandum durimus— inodorum ceterum

et insipidum the discrimes polymorphum, diversimode gibbosum, Zuber edule Solani adeo mentientem ut vex ullus undeceptus discedat, semi-defossum, arrhigum, ni fila supra descripta, passim apicibus liberis ramosa, radicularum vices subire aestimoverio. Viarum præsertimet have species comes, sed magis assidua praecedente. Item aestate et autumno. - an igitur species nostra cum Sycoperdo aestivo Wulfenii conjugenda? magnitudine 8 excepta parum obstare videtur; verum penes peritiones esto judicium. see p. 66.

Sloyd Museum 87

The New York State College of Forestry - Syracuse, N. y. Forest Fungi Melanogaster ambiguus No 87. Sociality Syracuse My. Date Oct 9, 1915 ... Nearly buried in black soil in a woods road. S. H. Pennington. Fragments of Phigopogon in the Sloyd Museum

Jan 3-, 1918

Sloyd Mus. 07866 GC Fisher 21 Florida

Vi fructification present. 1,6 × 2,2 cm, Tawny

to mars brown, peridium 115-120 pe diameter

Fragments of Phigopogon in the Sloyd Museum

To mars brown, peridium 115-120 pe diameter

Jaleba ochraceous Tawny; cavities sub globose

to labyrenthylorm. septa hyaline 90 pe thick

somewhat scissile composed of large gelatinging

hyphae; basidia inconspicuous

spores almost fusiform

4×7.5 hyaline.

Floyd Museum 6179

Plusopogon rubescens teste Cooke collected by Ellis in M. fersey from My Bot Gard. V2 fructification present 1.4X2.0cm about warm sepia; fibrils! not discernible. periodium

gleba between cumamon and smiff brown cavities

O241 Sloyd Museum

Hysterangium neglectum cotype ex Massee
"grazial"
Jasmania: peridium wood brown gleba cumaman

Sloyd Museum 7300 R. diplophloeus, 240
Wh Sukodorf 811 Washington [R. rubescens Pat.]

14 frictification present. 1X 1/2 X1/2 so probably
originally globose 1 cm in diam. mars brown
fibrils scarty, unfate darker; pe idium duplex,
375-400 pe thick, taking, demarcation not pronounced
gleba sayal brown in outer portion, bister with
cavities irregular, labyrinthiform, septa 70-80

pe, of closely interwoven hyphae
basidia
spores 7.-8. X 3 hyptime or dilutely colored
under the sucroscope.

Sloyd Museum 7298 R. occidentalis 37 D. ? Wn Subsolorf 813 Wash. [R. nubescens Pat] 14 fructification present, IXIX.5 making the original !XIX2 common brown; fibrils dark redbsh amber, anastomosina, small peridium scaring offin places. 140-100 pi gleba ochraceous suff fragile, cavities labyrunthiform; septa 70 pe thick hyaline not acisoile; basidia davate many spored, spores 10 X 4 pe slightly colored in mass, almosthyaline under a microscope.

Sloyd Museum 64. Rrubescens var Vittedime
64 American Botanical Erchange bureau geo S. Fisher
901 Pease ave, Houston Texas USA, fan 1, 1917.
Collected at Houston Jeras USA, fan 1, 1917.
collector geo. L. Fisher. on ground, fresh
buthard when gathered.

64. Rhyopogon. Unnamed I think. Very interesting. Some day of I will go over the Rhyopogons and publish them. This is quite close to our but different from our Rhyopogon rubescens, our only common species.

Geo. S. Fisher, Houston Jexas.

The specimen consists a single fructification with a small frequent missing. It is subglobose 1x1.4. X1.4. color darker than bone brown

fibrils scanty to fairly abundant, innate to nearly free concolorous, peridium

gleba light to warm buff, hard; cavities labyrentheform winding; septa

Hymenogaster lilacinus ex Julat Kew But not same sporesis he shows These are strongly uneven strongly aproulate 12 × 32 mostly 12×24. La tiny fragment

Sloyd Museum 2210. Melanogaster rubescens
Type material from Schweimitz Herb. 2210.
Schw. Syn Tung am Bor. 2210 wal collected
on Mt. Pocono Pennsylvania. No description
quen as he refers it to R. aeatwes Fr. Syst
Myc 2:294, #4, 1823.

The specimen at sloyds consists of two fragments one about 14 or less of a fruit body, 1 X.5X.5 making the original probably subglobose I cm in diam. The other is a tiny chip 1X 3 X 10 mm. enclosed in a prece of waxed paper marked 22 10 dechu.

color Pronts brown to almost black, fibrils
scanty mostly subscanty mate, anastomosing darker than
peridium, very small; peridium dark tawny, 140
thick composed of large colored intervoven hyphra
gleba hard, bony, ferrugenous black and light
gray, resembling a fractured surface of Khuzopoga
diplophloeus; cavities subglobose, filled with
spores in a gelatinous mass so that sometimes
spores are cut in two; The septa are hyaline
made up of large, gelatinizing hyphae thick
spores borne on

spores smooth ellipsoid, olivateous fairly thick walled, 9-10 X 4-5.

Slord Museum 1:446 1031 Washington's Flora Klicketat County, Dry soil in forest Falcon Valley 270ct 1909 Wilhelm N Sukskorf.

specimen consists of portion of fruelification pyriform 1.5 x 1.5 x .5, Prouts brown.

Slogd Museum Hydrangium Brunneolum (HX) 316 Martellia? under Luercus agrifolia Mi gardner a #245 Berxeley Cal. Jan 7 1905. duty white is turning brown." - Sent Mattirolo who endorsed it Octaviania microsporus Matt ad interim.

Sloyd Museum 1279.

Herb Dr. & Pazzechke acc VII 1912.

[Rab.] 1279 Nhyoposon rubescens Tul...

Sundhurst Hampshire Oct. 1868 leg C E Broome codor hauseosus.

1279... (Rab. 1279). 9 Sindan, Berlin.
Specimen consists of two much Statteness
fructifications, pyriform. 8X.9 and 4X.5 cm
respectively.

Sloyd 0242 Melanogaster variegatus det Mattirolo
Frustule from N y Botgarden nowpasted on a sheet
Peckiella insignis. Dearness sent etito Ellis No249 D
"Rich chocolote brown when fresh, about the size
of a large marble gleba of darkareas filled with
brown spores spores 3-4 x 7-9. seems tohave been
hypogaeal.

Sloud Museum 2208
202" Rhyopogon album" type from
Schweimte Herbarium. [from Carolina
probably. [Lust a type for 2 48 ded not que a description.]
One fragment 3 mm in dram and 1 mm thick.
I his is a thigspogon for the spaces are
nearly colorless. The fragment does not show
pendium so that one can decide species from
that. It seems to be xuteolus or serhaps seesters

Sloyd Muslum 1921

Hyslerangum stoloneferum Tul spore 21,6-6.8

The gleba of an old specimen freshly cut is greenish

Ithurns brown on old cut, specimens This is a paid single from francount Right yellowish olives.

Melanogaster in Sloyd Museum

4. Ex herbario Dr. L. Hollos, Kecskemet Hungaria

Melanogaster varuegatus Inl Corrit Krasso

- Sörsny. Anima 1897-juni 7.

Sloyd 6074

Sloyd 03709 contains Pats label for & Kriegia Bondieri and Metrolopor Melano.

Sloyd 06643 Melanogaster ambiguus Sloydotomai'18 det Lloyd WR Gulfoyle Wilbourne Australia contains 1/2 fruclification

Type of Rhizopogon cerebrinum Sloyd.

No 262 Date Oct 13, 1914. 20c. Prov. Mikawa

Japan Coxlected by a yesuda

No 162. The fruit body yellowish. It raws

oncy its upper portion above the humis

spores grobose or eliptic, smooth 3-4 in

Idrameter. Viole from yesuda's reter

+c 14, 1914.

162 Mel nogester. It we never work of on the species of my great man spores of

by some like the opposion to so. It is no

Sloyd Museum 1331

repptogramic bolant to be fort of India
Schradium U.P. wated nove. 8th 1402

Mame Melanogester turnssimus Cooker

relity simila Virush known

set word 1000ft

No 14945 Kied from I H Burtull Sq. Indian

museum

Sloyd Museum 05915
Wartmenn und Winter schweigensche
tryptogamen 720 Melenogister Broomeians
Rich in Julasne Chimp hypothemidesdete
met 1843 yn M. Varieg ites 3 Bromus us
it tungi hypog par 75. Campagne
Buthini bei Mislan (ymf) in Leutt olzgetus h. Prof Dr. J. Miller.
from Jagsihke

Sloyd 6164
Melanogester umbriguus leste Bresedola Hatong
102 Fungi of Idaho. Prest rake in old &
straw ang 1901 would by CV Piper.

Sloyd 07245
Wells ogester sembig us Muss there of the Vior on Wig Logical tub. May 10, 1907.
raching 2.5 cm rong.

Sloyd Museum 05859 Fungi Bohemici Janhera praveolens Vitt Vysoksy Chlunuc ud Selcany 28 VIII 1904 Leg + Bubak.

Sloyd Museum 05916

Floregermanice Frulera preveolens
eisteben Pr Dochsten eeg johntungt.
Werbar & O Pazochke seyzing.

Floyd Museum 05 860 tungi Borumca - gentiere morchelegor is Jabor: in selva ad flumen mancae 30.8.1404 Leg & Bukich.

specimen consists of a single specimen grobose about a. 5 m in diameter between ochraceous tenony and bulathour brown

Slayd 08 +53

quitiera morchelliformis Prof. Paloudlard
from the fure.

Machinelications pyryorm 2/2 cm
color buckthorn brown.

Sloyd Museum 1757

Frantierer moret steepormis. This is no the
the scame on comparison with inropens

Flant. I presume & com closing to it is offer

Harkness called if intrera monticola, this is

the first fruitera & were ever at

from the United States Our hypogre of mass

are very imperpathy known. De Crembond

Claremont, cal

No 1759 about ten inches under a round surface under oaks Claremont Mar 1, 1917 Toll. Jois Millency Herbarum of Pomona College

Specimen consists of a single fructifica

3 cm mdiam

Sloyd Museum 05861 Fungi Bohernici Hystermquum clathroides Itt. Jabor in silvis abrelinis 24X 1905. Leg + Tarbak

Sloyd Museum 1927 634 Flora of Washing ton, partly above ground mount Padolo (adams) atalbhole of oout 2200 melers wishkadorf 100ct, 1701

The Hymenograters are fungi that mostly arow seneath the surface of the & ound when are fun by me of the strope the subject to subject the subject the subject to s

May wil & A - pered monog capes of them. In the winted slikes Harkness and 2 rot of work in the subject. He usual mycolog it wrey is them and the the they no doubt occur in all combies this not alle led, for not or wed. The opicies Mir, Umamure sende - om Jupan tras small hystine upo es 2/2 X4 inte the sporesof a Rhisopogon It count se the Europe an ex sec sklof which have large spores/Oinicor ne I. It seems to me to ag ee with Harkness count of Hyaterangium Phillips in the + course il determinations made from hiscriptions are more or less doubtful Harbenesshasa figure of Hysterring rum Phayere showing forous rockets tot not on the for we species, out ing may have been prohenoge. The spores re siso gwen 200 which where n how me the proposed out when as a whole the sescription a 1's

figure agree very well, J. Umemura Negoya Jepen

Sloyd 06578
Sycopordonor scleroderma. Jolden yellowish ormon when frish. Some of this color omes off on the hand. heavy of rowing on near mould in the ground. Unt 1706 Massau Mr. Bahamas." 06578 Hymenogaster (1) & J.K. Varace. Makamas.

Sloyd 05 348 Nev. J Rick Portugil

Glogd 04146 Hymenogester Klotzschin Zul Hort. Berol. in oasis Enealyptimes april 1104, P Hennings. singer ity is tim, 5cm or sessindiam person.

Stoyd 06150 country of Foliatt 27/101905
In sandy soil JM Keader 3 Unclosia tusharis
single oblong princtificultion stout 3 cm way
'14 cm in diameter fibrils for many

li de

ft ming a colorless beard. I mor more rong

Sloyd 5 339 Oclaviania asterospora Montmorency from Bondiev - from Hollos

Sloyd 6395

Hydrangium soderströmi Pat

Ecnador fruto eg 9 asgerbeim.

This is probably a cotype the species
is characterized by a very thin peridum

spores see globose 14-16 mic and brough
us per ste

The largest prictification of the others
is 3.5 X 2 X 1.5 now you 5, 1714.

Hydrangium monorpoum Boudit Pet Nice must Barla, from Bondier France "This is past Irlanes and was would by Bondward Pelouillard." and a opores on bandie & thewards it Strong apiculus and very funely esperale Fom Bondier France Frechfication 1.5 cm in diameter

Doyd Museum 1981 Ochviania in pine woods Auburn Llabana 12/9,1900 +8. Earle

Sloyd Musium 65"

65 ilmerican Robenical Exchange Bureau

45. 2. Fisher 901 Passe rive Houston Lexasts

occuted at Houston sexist 54.

or fround, freshort hard when solvected.

65 Aphrangium Kroendii fr Myc holes finge

361 Affirst I doubted this as apores are not

so strongey sticulate outon comparison

I on mid t could not se very other.

Tructification 1,5 cm rong stream

Sloyd Museum 52 Hydnangum Revers i' nokete with spec Sløyd Museum 10620 No 12 Sandy soil Florida q syde Fisser Hydrangium Rwenelii

Dloyd Museum 06025 51 Hydrangium Luter corneum Bres pues mosum and Poly saccum We label this as received it is we the se new 2 per blished We doubt it seeing a "Hydrangiim as" leste to esaelole. I quess Mirk was closer when he could it Poly oca it & spores are not a very disa type ray end see no rasidia and to the syn the glada is not that of Hydrangium. Lpublished ann Myc 18:54.1920 probably type Sloyd Museum 04147 Hydnangum Carven 10. Hort Berol in vasis teperderion. (Pluntae ex Nov. Holland of ill 134 D. Hennings. spores globose sprong y my well in poundy seen with no story in

is betwienia asterosperma.

Sloyd Museum 6039 1) Hydnergum carneum w ker Sud de la France ax Herb. M. Patonikung.

Stoyd Museum 11155

Hydrangium australiense ok.

Stowe is doubt of I from Berkeley's dea

cription which agrees exactly It's close
to Hydrangium carneum but differs in

maker spores which are 10-12 mis probose

in the end numbely rough crustralia

Miss I Jurier south y ma southington

Set of Houseum 12127 type of H pallidum

H, manyum probably unaramed

At 's close to H. Solderstromii (see my

spic) out tiff ent context and dup it,

different spores. Keved Mille, constor.

Coloction consists of a number of policie to

w. wring 2 /2 CM piriform, the paradit

perdum duappearing to the t troops whe

Hydrangrum he up iestrovenever seenworked out I don't know this own of trink it is unmature. He spores se globose durk rough & sem to be une day they I think neither on & sudianor asci, CCL utletang Welbourne dushalis.

b 31 i ora of Wishington partly above ground i knicketst Co. near primer PO Wishington 13 Oct 1901

Eloyd Museum 5126

(33 Flora of Wartington seulium cope

4 Mt Reddo (redams) at et of we 17 100 miles

WN Sukirdorf 13 otat 1101

Stoyd Museum to 32 5925
632 Hora of Washington On very light 201
partly above ground in open pine. woods
limour, Falcon Valley Wn suksdop 8 Oct 1901

Hydrangium carotaecolor Berk

dans un paturage à Bassesourt, Jura bernois
D'un beau rouge-orange carotte 18 septembre
1920 Hymenium concolor Sa tranche inclue
provient d'un exemplaire gros comme ceci:
sommetémerquant
enfoui à quelques

centimètre sous terre le

sommet emergeant.

[Faul Konrad, Sulitzerland]

see Sloyd mye notes

peridumitawn, gleba

rying antimony yellow

Juler virans A&S.

Sloyd collected a plant with a "greenish yellow gleba when fresh near Upsala. Fries did not recognize the plant as virens for he says that it is a smaller, more irregular plant than luteolus. The characters Fr Mordh give luteolus are very probably like those of the sloyd collection and the Schweinitz picture. It seems quite possible that virens is a north European species and terat forth and Fr. luteous should be included as synonyms leaving R. luteolus Tul not Fith as a distinct species of S. Europe, with both species meeting in germany, Probably the verescens of Karsten should be a synonym of Rvirens (a+8) Fr. Sloyd in a conversation was of a similar opinion

see this notebook p. 44.

character size color p. Thickness p. structure p. color g. color D. thickness s. structure basidia shape size sterigmata spores size color.

R. virens
1.5-2.cm

R. Luteolus

Study Peckiella sp. on Rhizopogon violaceus from Sloyd Museum 164. collected by J. Umemura Negoya, Japan.

The Mystery of Ellis 943.

a certain box in the New York Botanical garden, evidently the box from which Ellis North american Fungi 943 was issued. The contents of the box are as follows: No 175 in red into on worde cover, box and a small envelope which bears the superscription as follows: Melanogaster rubescens/sec. specc. det. by cooken from S.J. Harkness amherst, Mass. Oct. 79/spores narrow elleptic/or obl. ,000 3 - ,0004/ x 000/25 basidia/ broad ovate 01/9 8. also a note also in Ellis hand

Hymenogaster tough almost like sponge not easily torn apart. perid. roughout subsquamulose at first becoming smooth, color dirty-yellow drat

color of interior back cinereous becoming brown in decay/cells of empty even at first smell of the decay, spec. something like that of fresh snaple back (acer rubrum) smell of fresh spec. not distinct young peridium purphish when cut. imperially rootlike white becoming yellowish, one spec found in an old wood path on the west end of my lotal Hewfield Oct 3, 1875 outer membrane reddish especially around the base.

Another small envelope ho 175 bearing
The superscription" Newfield ## Nov. 1879"
contains a slip with the following:
Hymenogaster - smooth, duty yellow, solitary or compressed vertically when cespitose-with scenty white rootlike mycelium at base (over)
the fibres of the mycelium extending upt spreading over
the lower/half of the pendium-on the ground an an old aban foloned road in los pine woods
Newfield Nov. 10, 74) spores abli-cliptic about
0005 long

The envelope also contains a smaller with

Le.

The cover contains the following labels pasted in "Octaviana Stevensii Berkfoar Ravenelii B+C
see Rav. 7. am. Cent 1./ Rhizopogon rubescens Jul/
fide Sacc."

Eprinted Cllis North American Fungi
943 Rhizopogon rubescens Jul/ on the ground in
sandy pine woods/lona, NJ. 1882/ Capt Geo. M. Copp.

"Klugopogon rubescens Tul/fide Saccardo/
on sandy ground/Newfield, N. Jersey/Nov 1881.

spor. 6-9 x 3/larger than in the 1873 spec H the
Texas spec but agreeing with Baskeley's measurement.

"Rhizopogon rubescens Tul/see Rav. Car. 1.75

from Texas ang. 1875/com, Mrs M J young/
spor. oblong 5-7 x 2-2 /2 m/2 nucleate."

Hysterangium neglectum Rodway Zype el 9t is a melanogaster — a few fragments of gleba no peridicatly Hysterangium stelomferum
var americanum type materials
Conglen Ilhaca N y
4 Feb patrick spring 1912
Ny State Poll. agr Cornell 8448. Hysterangium Thwaitesii Type - a few fragments no peridium 19 Hysterangium rubricatum ex Hesse. Prof Matterolo Italy 083 Hysterangium membranaceum Skodwaj Hobart Tasmania 0241 Hysterangium reglectum ex Massee Tasmania Hydnangium australiensis type a fen gleba fragments Cotype The genus is Hydnangium with veins - Cavara ITaly Erb Critt It. (1052) Octaviama mollis Italy

Pine and ground squirels, are very fond of these subterranean fungi and may be sialou seen seeking for them in the early morning, apparently they are a much desired delicacy. This affords the collector a means of procuring specimens. When a squirel is seen in the early morning, with a round module in his mouth, it is, in my experience, a sure sign that he has one of these fungi. Que chase and frighten the aminal and the fungues is usually dropped. This is the method by which I have procured every specimen I have." James R. Weir in a letter to SM Zeller 7eb 6,1918.

Collation of Trog. and Oth.

Trog, f. G. (sen. in Thun) apotheker Verzeichnig schweizerischer Schwämme, welche grössentheils in der Umfebung von Thun gesammelt worden sind. Mittheilungen der naturforschenden gesellschaft in Bern.

1843: 17-92.1843[#15-23]

Nachtrag zu dem in Mr. 15-23 der Mittheilungen enthaltenen Vergeichniß schweizerischer Schweimer Ibid. 1846:73-81.1846. [#66,67.]

Zweiter Machtrag ... Ibid 1850: 49-56.1850 [in #173] Dritter Machtrag ... Ibid 1857: 25-47.1857.[#388-39]

otth, q

Vierter Machtrag ... Ibid 1863: 70-90. (863. [in#538-542] Fünfter Machtrag ... Ibid 1865: 155-181, 1865. [in# 599-602] Sechster Machtrag ... Ibid 1868: 37-70. 1868. [in#658-662. Siebenter Machtrag ... Ibid 1870: 88-115. 1870. [in#722-726]

was freeze

Nov 18,1918. Sast number used 955. #1001 to 1248 have been used #1-500 reserved for lichen herbarium unnumberedas yet.

Questions for trip to Farlow Herb. Rhizopogon - authentic material Luteolus Fithord provincialis Zul seen type locality graveolens Vitt. Notez nate cu: sula Sombardia 1:341. 1844 (Milano). also H. vulgaris = "Ist induratus Cooke violaceous Chet Massee - Kirk 382 in Kew. Rodwayi Macalpine suavis Quelet (fura Vosges region Capponicus Karsten Isl. Runsala marabo + Knasa (quba m. A. Russian Sepponia Horealis Karst Walting # & Zidbäck virescens Karst or virens Karst Syrjoas near Must Webbii Jul - Chasna, Canaries. picens Bot Hong Kong China. verens see this notebook p. & 6. albus tangle

73

190

gantieria. Anthentic material
graveolens-mexicana Chatin - Fischer
Irabuti (Chatin) Pat. Algeria
Otthii Trog examine all Swiss graveolens
material - Hardlisberg.
Drummondi Cooke.

Chamonixia caespitosa Rolland-subabies excelsa Bois duBouchet. near Chamonix,

!! Gymnomyces Massel & Roduray.

! Sencogaster Hesse, Mattirolo - Burtapec.

Hydnangium }

Coctaviania)

I arcangelliella Cavara?

! Sclerogaster

Melanogaster Corda

Hyperrhya Bose - Carolina Charlestown

Hysterangium

Hymenogaster.

11 Macowania Berk.

anthracophlous rhypogonoides Matt. was it ever published and where.

Nov 23, 1918. Pripto Farlow Herb. Has Hesse collections 1903. Hym. decorus Tul Eisenach 1892 tener Back. Callern 1901 R. provincialis Zul. altmark 1899. Hysterangum clathroides altmorschen 1900 var. Vitt. Loubof 1900 Octaviania asterosporavar Rasburg 1901 " Uitt altmorschen 1901 lutea Hease altmorschen 1899 brumea Hease altmorschen 1899. lanigera Hesse? allmoraden 1899. Sencogaster floccosus Hesse Kirchain 1902. Melanogaster variegatus Zul Spregelslust 1901. Hysterangium rubrecatum Hessa Melanogaster variegatus Tul -Octaviama asterosperma Vatt. R. Luteolus (Fr) Tul celtimore 1400 Rovens Fr Cille 1900.

Seucogaster floccosus Hesse Kirchain 1902 Fructifications small, pyriform Day to auburn preserved in alcohol, 1918; peridium with thich flocculent concolorous patches. 120-150 p of fine hypnae at it of the structure fibrils loose, round black or nearly so, globa darker waxyina cohol moderately abundant septa transparent under nucroscope composed of large closely woven tra hysline hyphae basidia linear 1 2-3 spored (?). 7 x12 pc spores typical of genus clear space 4 p tooutside of gelatinous sheath 7 p in drameter occasionally reaching 10 pe

1 1 = 100 m

spores
with slight reticulations

gleba tawny to russet which on closer examination shows that the septa are white like the periodium and the cavities are lined with the

Tawny spores.

spenies 2-3 pe long heary ...

Ea ; . . /

Peredul place of

retire in River.

Octaviania brunnea.

Collection of five tiny fructifications the largest about .8 cm appearing almost black in the alcohol. Surface mealy, very dark brown under themicroscope periodu "

p thick of denter to be known incly woven hypro-

fibrils very inconspicuous, if present, not seen.

diameter spores 3. 4 p. ong
12 20 pin diameter vali 4-5 p. thuir

14 phae. 30-40 p. 16 -

Octaviania lutea Hesse. altmorschen 1899. Collection of seven large fruit todies reaching 2/2 cm indiameter iregular probably gregarious or caespitose. Peridium smooth or roughered by a tendency to crack offin places, whitish background with large auburn to chestnut to Marabrown patches of arm e/- en the t 7 miles he was a disorder 11-10 - 4 mm dia. 11 treward for

80 Hynenoction. (de most var Mexicain Tay 1 74/2 Rhizopogen ' va + + gilkey recit to early for tere encureries = R parmosus probably but not studied R. Lucia N. E george . 1 ryla geloca R. rubescens hallham mass Bankridge ala Sic. 12 Hydriangum carneum greether Julie 1992 Hysterangum under spiece.

Jan 25, 1919. Received HHT proof of Arcangelkulla, Jymnomyces & Macowamte; from zeller. He states in a penciled note that Hymenogaster candatus, becomes Qantieria candata (Harkn) 342 when pub. see Zeller letter of Jan 6.

Dodge 1249 portion of type of arcangeliella candata 2+2.

March 21, 1919. Received 4 collections
from Mary Strong Clemens, 412 Park Que
Pacific grove, Cal. Numbered as follows:
956 Eyeoperdon sp. Jan 1919
957 Rhyopogon occidentalin loose in box with
958 Eyeoperdon sp. (young?) Finder same label.
959 Rhizopogon occidentalis 312 Feb 15

June 14,1919 Received 2 collections from Mary Strong Clemens. 960 Polystictus versicolor 961 arting fructification from sanddunes probably discompetous. collected a discompcete on Rosa stems. 962 and 963.

aug 1, 1919 Trip Collected numbers 964 - 1000, 1260 Climbed east face of Tadmer hill, funding only a few. Russula abundant on top and north side of hill, a single collection of melanogaster for worth side of hill growing on earth in close proximity to roots of Betula stump. a true Peria found with raised lumon colored edges and a smoky hymenium, some of the pores as in accompanying drawing. The presence of Stereum spp with hymerium in usual direction showed that the log had not been moved for over a year Try toget a fresh specimen later and see if it has any quotropic relations in culture. Hydrum sp. 125 2 also found, a small number of disconnectes. Formes applanates was abundant with large quantes of the brown spores on the upper side. This would be good for a study of spore dis-

persal. Some Clavariaciae seen, also per

haps, Tremellodendron or Craterellus.

ang 15, 1919. #1261. collected by w. w Dodge in cornfield. Fructification of ovate 1 peridium rough with raised patches of outer layer?) inner layer white and cottony where cut, sterile base not pronounced. gleba neat sendium pale chalced, becoming vinaccous slate in center. Cavities almost car coal black, seemingly full. cavities Toward peridium empty. fibrils and columella absent.

Aug 25, 1919,#1262 - Sepiota photographed in situ. same date #1263 Cantharellus

This specimen seems to be C floccosus Schwas defined in Murill Nam H 9: 168-169,1910.

It agrees with C. principes Berk as given by Saccardo Syll Fung £: 487. 1887. But less well with his interpretation of C. floccosus. What is to be interpreted as C. aurantiacus? see illustration in

Berk. Outl But Fungol. pl.

1264 amanitopsis nivalis (grev) Sacc, Based on Peck.
This seems to be Murrell's interpretation of agaricus (amantopsis) nivalis Pech ann Rept ny State Mus 33:48, 1883. see Mur. Man H 12: 67.1914. see also atkenson's a. abocres Jour. Myc 8:111.1902. However the stype is not hollow, but sace who made a n. comb. on the basis of Pech's description, doesnot mention the fact. He connects Peck's paper with a. nivalis of grev. Scot Crypt 7/ pl. 18 a portion of which is quoted by Berk in Smiths Eng H. 52: 3.1836 which states Stem 3-5 in high, 3-4 lines thick naked stuffed with spongy fibres, bulbous at the base, with a construction where the volva becomes free. Fr. considers this as a white war of a. vagenata of which Saccardos forma b. Tota alba might fix.

ang 27,1919.#1265-1297.

Trip over Jadmer Hill. Hydnaceae, abundant. more different families less species. Rain for three days previous. # 1268 and 1269 Hydnum coraloides and Hydnum caputursi resp. were growing on the ends of the log or rather near the ends, along the sides.

Sept 4 1919, #1298-1300

Sept 5,1919 #1301-1316

Second clear day in two weeks, collected on road west of Tadmer swamp.

7/311 several * fructifications, margin

appendiculate. below is drawing, shaded are as represent water staked cartilagemous tissue. stipe stuffed mealy without bulbon but with no sign of volva, annulus not present but lo-

of mealy scales above a definite line around the stipe.

Dept 27,1919 # 1329 - 1346 Oct 3,1919 # 1347 - 1354 Oct 10,1919 # 1356 - 1387. Hymenogastraceae in Brown Univ Herb.

Hysterangium nephriticum Berky near Bristol 2/-45 (penaled 305 Hymenogaster citrius Bedminster Down Septem ~ 25; 45 near Bristol (penaled 309

Hymenogaster luteus Anglia ex Berkl (Olney's writing)

H. Lutens Villadini Wiltshire.

Horgenenogaster olivaceus Vitt? near Bristof 9/11-45. (collectedat Hartham Park autumn 1845

Hymenogaster tener Berky n Bristol

Hydnangium carotaecolor Seighwood near Bristol 1846 (penciled 310)

Hydnangium Ravenelii BtC in terra Car. autr.

Hydnangum Stephensii maBustol 1844 Rhizopogon rubescens Tul in Terra Car austr

Rhezopogon luteolus Iul in terra Caranstr. Rhizopogon rubes cens Tulasne.

Devonshire 10/- 45 (penciled 311)

Hymenogaster? nearBristof 1847

Octaviana compacta Tulasne near

Rome October 1846. penciled 56

notes on the plates of Vitladini, Mon. Zub 1831. (M. Bot Gard. Copy).

PlateI

1A peridium Verona brown, cavities cacoo brown butmore dilute

18 pendumbetween Russet & Mars brown

Drown 2D cavities cumamon

3 E peridum vinaceous cunamon + darker

3 F cavilies bester

4 a sabella colort darker 4 H cavities sayal brown truged with pomegranate purple.

51 black with warm sepa markings

Kcavities a mixture of above colors.

6 L olwaceous lightly washed over black M+N the same or darker

70 orange annamon + darker

7P cavilies Sudan brown

82 Alach lightly washed with bister

8x cavities lightly washed with mars brown

Plate II / between russel & cumamon brown 1B cavities light buchthorn brown 2 cavities same but lighter peridium dreadenbrown 3 andene black cavities 1c Darker Than olivaceous black 4D cavities between ochraceous tawnyt connamon brown. 5 E cavities russet 5 F peridium light sukish cumamon or lighter ba lightly washed with light buff 64 ochraceoustawny 7 practically black twhite 8 R lightly washed with ochraceous lawny

9s periodium washed with antimony yellow.

100. cavitals russet. 100 washed w. tawmy

had the

Plate II IA Mars brown Ib cavities lightly washed with chestnut brown 2 c buff pellow to baryta yellow. 2 De avities bister septa bayryta yellow 3 EXF washed with sooty black. 4 peridum cumamon brown cavities black, sept barytayellow 5 washed with bister 6 washed with russet 7 cavities mars brown 8 peridum bister 9 cavities primiles yellow 10 M autir Neavities very lightly washed with auburn 11 bister 12 between pecan brown troods brown 13 lightly washed cavities penkish buff. 165 warm buff 16T. between tawny & russet 17 russet 18 mars brown 19 saccardos olive 20 Mungny brown

Plate IV 1A4B Vandykered to Hays Marson 2 c lightbuff. 2D light yellowish olive 2 E lightly washed with light buff 3 a Towny 3 H deep quaker drab 4 L zinc orange Tenterior deepquakerdrab AN between vinaceous- + olive-buff. 50 peridum dark olive within citrine drab. " dark olive 6 a Tawny & R dark quaker drab. 7 dawny & black 8 light buff 9B cav. ochraceous buff 10 c ochraceous salmon, spores Pronts 11 D " buff spores Mars from 12 E pendium Mikado brown cav. warm se 13F washed with orange cumamon 15 merror dark olive buff. 16 Pendum Dresden brown 17 Wood brown + black 18M drab with deepgrayish olive center Plate V not colored.

Becher, S. Schlesiens untererdische Pilz Flora Natur 35: 355, 1986.

3. Hymenogaster? campester m. am 18Mai 1873 zu Pelsnitz bei Breslau, in freem, strauchlosen Lande, am Rande eines Bachleins, in der Hähe einer faulenden Baumwurzel und der Wurgel von Symphytum officinale ! - 2" tief: grope der Erbre bis 12 Haselnup. Hant dunkelrothbraun; Schnittfläche mach dem Trocknen rothhaffeebraun, wie horning Derb Deim Schneiden geruch penetrant morchelartig; rach anderen: poljartig Sporen verschrumpft Zusammen mit Choeromyces? campeste, m. Von Winter, welchem Scheibchen zugingen, in seiner Hora wicht berucksigthetig.

5. Octaviania Silesiaca M. am 2 Juni 1873 in den Heßbergen bei Hermannsdorf (Janer) unter dichtem Moose, in der Nähe von und unter Weißtannen-Wurzeln Größe der Haselnuß; gelblich, in trockene zustande bräunlichgelb werdend derb zäh, pilzantig reichend. Schnittfläche erst weiß, später weiß und braunlich gelb marmoriant. Sporen vollkommen hugelig und warzig Jusammen mit Hysterang um dathrordes und etc.

7 Octaviania? Gautieria? pityophila m. Mit M 5,6 und 8 zusammen am 2 Juni 1873 unter Moos und Weigtame. Derb, nach dem Trocknen monoton chamottefarbig: wie auch das Ausere nur das dieses unrein chamottefarbig ist. Schnittsliche weite leere gewunde Riume zeigend. Subterranean, depressed globose, nearly? smooth, brown; peridium thick, coriaceus radicate, gleba firm, chestrut colored spores crowded, globose, brown, covered with more or less reticulate papilla which are 2½ + 3½ µ long, involved in an indefinite hyaline muçõus, 18-25 µ m diameter.

Peridium 31/2 cm wide by 2/2 cm. high In cultivated soil Sincoln (4204).

Survey of Nebraska Botanical Survey of Nebraska conducted by the botanical semmar. III Report for 1893. Sincoln Nebraska published by the Semmar 1894 (Distributed June 18, 1894. page 12. nofig. 237 Hysterangium australe Speg n. sp. Diag Odor fortis, nauseosus, fungenoterreus, subverosus. Uterus primo sulglobosus dein obterra pressionem irregilarter compressus, varie gibbore expanses magnitudine ludens (5-20 diam.), basi manifesta nulla, fibrillis radicalibus perfecte destitutus, albus, levissimus, glaberrimus, peridio tenui a pulpa non v. difficile secedente, carne autem pallide fulvo-olwascente, tremelloides subceracea, tubulis numerosis, ming. tissimis undique irregularites percursa tubuli graciles (150-250 dram.), varie elongatis, vacuis, parietibus sponferio cumamoneis; sporae elleptico-elongalae sursum plus minisve attenuato-rotun. datas, deorsium acute attenuato-cureato Dasique truncatai, episporio ubique majuscule undulate-subvermentoso saturale olivaces- fuligineae, protoplasmate grosse granuloso farctae v. 1-quetalatae (15-20 X 8-10) shipite longinsculo, gracile hyalino monospermofultae Species primo intula pro Tubere australi speg. facile sumenda, odore tamen, ac sub sections carteris characteribus mox distinguenda. Characteribus externis nec non vegetationis perscrutatis, dubiose havres an hic fungus Inberioustrales Speg. statum stylosporecum sistat an lubera asagera sphaericorum more statos metageneticos possidents trab adterram plus munsoe profunde delitessens out muscis hepaticisque en la Boca de Riachuelo Maj et Juli 1881.

Spegazzini, Carko, Fungi cergentini additis nonvoillis basiliensibus montevideensibusque. 4:94.1881. (anal Soz Crant arg 11: 1881. 270. Hysterangium Marchii Bres. n. sp. Jab Epigeum vel sembypogaeum; subglotoz velhine et illine depressum, basi radiculis mycehalibus crassiusculisinstructum 2-3/2 cm dram; perdum membranacez facile separabile, luride alutaceo-subumbriamm, tactu rubescens, sub. glaber, mox un squamulas secedens gleba cartilaguea, ex albo olivacea, cellulis vacius, mulliformebus instrute sporae obovato oblongae, pallide Olivaceae biguttulate 7-1004-5 mm basidia clavata 30-35 × 8-10 mmm contextus peridir ex hyphis ramous luride liteis granuloso-farctis 5-8 mm latis; contextus gletal exhyphis hyalinis, 3-4 mmm lats radicular ex cuticula procedentes ex hyphas septates conflatae autumno in pinetis «Verla» pr Tredentum semel abunde obvium Explicatio tabular CCXIf. II

1-2 specimina dene evoluta. 3 section

perpendicularis speciminis jumous
4 Id speciminis maturi 5 Sectio
pendii et glebae. 5g p Sectio pendii
5 g Sectio glebae 6 Basidia 7 sporae
"I Species haec primo legit et communicavit egregius magister I Mordii
entomologus expertissimus, cui jure
meritogue dicata.

Bresadola Fungi tridentini 7:99-

100.1400. Lfase IV Dept 1900.

Berträge zur Mycologie von Dr H7 Bonorden

1. Hymeogaster flavidus Bonada utero vario, plerumque globoso, Tenui papyraceo molli impolito et radicato primum maculis roseis albidisque variegato, demum fusco flavido, spous oblongis albis minimis.

Diese hene Art des Hymenogaster fand ich in der Eberne bei Herdelberg in Schwetzinger Walde Die Oberfläche des merst rundlichen, selten oben zugespitzen Pilzes ist etwas uneben under fugend hellgelb und an der Basis mit rosenrothen und werglichen Flecken versehen Wenn diese Flecke Deijungen Exemplaren fehlen, so entstehen sie doch tald wenn der Pelz, welcher nur mit seiner oberen Hälfte aus dem Boden hervorragt mit der duft einige zeit in Berührung gewesen ist. Reif ist der Pilz dunkel. gelt. an semer Basis ester mit erner emfachen spindelförmigen Wurzel versehen.

Die membran des Uterus besleht aus ästigen articulirten und anastomasirenden zellen, welche bei dem jungen filz sehr werch sind und daher leicht bei der Untersuchung unkenntlich werden. Das Mark des Pilzes, mit dem Werus fest verbund, ist weich, weiß, körnig und mit Blemen unregelmägig geformten Soculamenten versehen, diese sind mit

Bandian ausgekleidet; es besteht ous burgen, articulisten, micht setten banchigen zellen, die sich nach dem Hymenium him kurz verästeln und in ovalrunde Basiden endigen, velch die oblongen weigen sporen ungestielt entwickeln Die Soculamente and Bleme Hohlungen der Substanz von unregelmäseiger, meist langlicher geogener Form, in feiner schutz bann man sie mit unbewaffneten ænge orkennen sie geben dem Mark em kormoges zelliges Ansehen. Fedurgia 15th, 49.1876.

I Hydnangium Rela n sp.

globuleux, plus ou moins bosselé déprimé en dessous, blanc puis roux a l'air deux ou trois centimètres de diamètre.

Peridium continu, sant à la partie inférieure qui est perforée et la cuneuse pubérulent par des poils incolores, serres à trans deuse et tenace, tres facilement separable de la gleba.

Mycelum blage, fibrilleux, pen developpe Gleba ferme, flanche puis roussâtre, creusée dans toute son etendue de cavités tres petites, violes sinueuses toutes sensiblement egales Base sterile nulle.

Clorsons formes de filaments grèles

et cylindriques, supportant unfan

tissue de cellules courtes, renflées isodiametriques, sur les quelles sont inseres les elements de l'hymenium Basides renflées en massire, obtuses et arrondies au sommet, rapidement attennes en une portion cylindracée en forme die pred 30-35 × 15 = 20 pi Sterigmates quatre constest aigüs Spores incolores, puis fauves tres pales arrondies ou à peine elliptiques mesurant 10-12 pi de diamètre ou 10-14 × 9-11 pi; leur surface est couverte du

d'arquellons fins et leur courte contient une grosse goutelette brillante. Semi hypogé dans les bois dochères dont L'aspect de ce champignon sett le meme que celui det galathijum mais il n'est point lactescent et ses caractères microscopiques sont bien différent.

Il sent tra 2.

Il sent pomps comparer a H candidum mais celui-ci a des spores bren plus petits et des basidies cylindriques, non renflées en massue, et bispores.

Par l'absence de conssint sterile et par ses spores faiblement colories il se place manifestement dans le gense Hydrangium, mais il touche à Octaviania par la forme de ses basides et par son peridium ficilement repurable. Se munque de cystides et la trame hymenienne pseudoparenchy matique bien différenciée indiquent aussi une parente etroite avec

Martellia, dont il en outre la forme des spores mais non leur coloration.

Partouilland M. Note sur trois espèces d Hydrangium. Loc Myc de Fr Bull 26:201-202.1910.

Hymenogaster anomalus Peridium thin subglobose. 9-12 lines in dramer, glabrous slightly lacunose, often with a roothke strand of myalin at the base, whitish sometimes lunger with red above white tellular within, the cells empty, 5-1 line un drameter, sterile base obsolete n nearly so odor slight, not disagreeable; spores globose or broadly elleptic even hyaline ummeleate 0004-00055 of an meh long 00035-0005 broad Near Washington DC Chiquest + September J. EW LCOX This species is most closely

by its subglobose spores but it may be separated by its white substance its smoother colorless spores and its condlike strand of mycelium This last character is unusual in this genus and suggestive of the specific name-Pech.

Phlyctospora maculata nouveau gasteromycete de la Chine occidentile Par M. N. Patoullard.

Se genre Phlyctospora a ete institué par Corda pour un champiquon hypoge, le Ph. fusea d'Allegraque, Boheme etPoituga caracterisé pardes spores arrondies, brune dont'l'epispore estre couvert de cellules hyaline figurant des sorts des pustules les organs sponfères sont restes longlemps incommis aussi la place du genre n'était pas nettement determinée.

Cette espèce à été retrouvéeren france

et examine par Tulasne qui indiqua ses relations avec Scheroderma.

Se Sylloge de M Succardo 1888 place Phlyctospora dans les genres pen connus, à la suite des Hymenogastes Depuis M. Beck, dans le Bulletin de la société bolanque allemance 1889, observe les basides de ce champignon et ettribux l'origine descellules recourant l'epispore à un bourgeonne. ment tardif de ces basides, bourgeonne ment qui donne naissance à des filaments contournes, septes, qui s'accolent aux spores et donnent à cellesci leur aspect caracteristique Pour M. Beck Phlyctospora est un hymenogastré

Un deuxième espece à le déarite et figurée par sorokine (Materiaux pour la Hore Mycologique de l'Usia centrale) sous le nom de Phl. Magnitricis; elle est originaire de techtes Tachkefind et différe de la precedente n'a pas on les basides de son espèce mais il fent remarquer que les spores se developpent de la même manière que dans beleroderma et qu'a leur maturité complète elles ne différent presque pasde celles de ce dermerque.

Phl. maculate différe de Phl. fiesce par la presence d'un pendum corièce et de Phl. mag mi Ducispar l'absence de verrues sur ce peridium

Dans les specimens murs que nous avons etudies, le periodium est double; l'exterieur (qui perraît indelieur est épais, de consistance cornée est est construe par des hyphes larges de 10-12 pi, fortement uc rolées, parallèles et dirigles dans le seus redial; ces filaments qui sont peu colorés au voisinage de la face interne du periodium sont brunâtres près de la surface et se terminent librement en poils très courts (30-40X5-6p)

Se peridum interne estrunce, villeus jaunatre adherent à la gleba; dest constitué par deshipphes larges de 10 p., contournes rameuses, tachement contextes et à perne colorées La presence de ces deux enveloppes et la disposition radice des framents de la perroi externe, pourraunt faire penser e un yeaster reste indehiscent, mais l'examen de la gleba s'oppose à un tel rapprochement. En effet, la gleba pulverulente, de conteur cendrée ou vrolucée se montre à la loupe, formée de logettes qui sont furcies de spores etlimates pardes hynes blanches à filaments hyalins très delicats: c'est-a-dire que sa composition esthes de exactement cellede Scheroder ma oulgare. Ses spores globuleuses sourprées et verrugueuses sontchangé descellules hychnes caracterishques

de genre Phlyclospora.

Nouskevonspas pu suvore sur nos echanlellons la formation de ces cellules mais nouis ferons remarquer que les vrais Scleroderma presentent à un moment donné ces ornements hydrig absolument comme les Phlyctospora aussi hous croyons que ces deux genres sont trop pen distinct et qu'ils devrait être reuns.

Siser, Phystospora maculata nov. spec- globora vel ovordea, indehiscens(semper?) inequitadine nuces avellance vel fructus juglandis prope basim et apice depressa, levis pallede rufa, hune inde squamules brunneis maculata fitris higris, periors, ramosis, brevibus, praedita Exoperidio corner corneceo, 2 mm crosso enters brunner, ex hyphis paraliles radiantibus composite pagines interna luteota; endoprid. tenui, floccose lutio ex hyphis

ramosis laxe contextis composito aleba cineres violacea, sulverulenta venisalbis strictis ad instar sclero dermatis marmorata; sporis globosis verruculoses 7-8 pulates hucleatis purpures rufis e proporio cellulis hyalinis tecti basidiis non

Hal Chine, En Tchnen briental district de Ichen Keoutin vraisem-

blablement hypoge.

Ce champignon fuit partie d'une petite collection mycologique envoyée au Museum par M'Ferrques missionaire apostolique

(smalltype) 8 deptembre 1892 Bull Soc Myc de 71.8:189-190.1892.

4. H. Gardner Ed Frocher Botan zeitung 1908, p. 164. Fungus megulariter tuberosus Syperficies umbrina Pendan non solubile crassum stratum exterior hyphis crassis dense implexes con

structum enterius gelatinosum, glebae septis dilatatis constans Gleba aeruginea venus externis al exteriori peridii strati orientibus perducta glebae lacums et septis angustissims Sporarum longiludo 16-11 ju diam 3-4 ju.

Fischer Ed. Liagnosen einiger Fungi aus Californien Repertoium nov. specregn veg. 7:194.1909.

5 Schlieplich brunge ich hier noch einen Pilz, welcher zwar einige Schritte von der Grenztafel des 1687 m hohen Schrofenpasses eutfernt etwa 10 m links vom auf Bayerischem Gebiete vorkommt und nur schweraufzufunden ist.

Voransschicken willich auch dußich diesen Pilz mit keiner mir zuganglichen Beschreibung einer Hymenogastree iden figuren kount

und deshalt gezuringen bin demselben ad interim einen heuen Namen zu geben Hymenogaster pumilionum adead ent. Das keelsprelige bylloge fun youm omnum von saccarde besty sch nicet ducker is en Hensenung unmerum ilwas meplic - und schaft on sicht ein Synonym. Der Fruchtling est fast bugelig Dis haselnupgroß Die Peridie wurd bis I mundick estrur schwer von der gleba trembar six istaupen femoarging gehörnelt mit zartem Hyphenfels umsponnen aussen gelblich zim oberrot fasterdbeerfarbig; im Durchschnell dunkter braunlich gefærtt Degleba ist zäh-schleimgfleischig, weich zweit weißlich dann braunlich gelb werdend sie besitzt nur ein gering entwickelt steriles Busalpolater und besteht

ans vielfach gewundenen engen gången, welche unregelmäpig verlaufen und mit den hellgelben sporen erfüllt sind. Die Weite der Kammern numtgegen die Mitte des Pelzes zu ab; sie schwarkt zurschen 0.1-0.3 mm während die hydringelblichweige Frama der Kammerwande 0.1-0.5 milich est und gegen das Suman znans uneretwas dichteren mehr b gelblichen und wenger durcharche 20-30 pr breiten Randzone besteht? Die sporen sind länglich spindel forming mit etwas stumpfen Enden 7-9 p lang 3 p breit, gelblich und sitzenmittels 1/2 julangen und In bother oruten Sterigmen auf undeutlich vom schlemigen Protoplasma der Trama sich abhebenden etwars-loplangen und 3.4 n. breiten Baxidien.

2

Der Pelzustohne besonderen Geruch Er frudet sich um Juli um Humus zwischen den Warzel fæsern von Rhododendron ferrugueum und Pinus montana in Kolonien von 10-15 Strick 14-1/2 munter der Oberstäche cem Schrofenpap em Alyan bei 1680 in Nohe Du allen Pelze werden durch Zerflessen der schleungen Glebamasse hold die Periolie wird schwartz und bruching ade a. Butrage zur Pelziflora Bayerns, Melledingender Beyerischen bot ges ze forschung der humsen Hora 2:219 Oct 1809 Champiquous hypogés de la famille des Sycoperdacees observes dans les environs de Paris et les départemens de la Vienne et d'Indre et soire, par S-RetCh Tulasne

5. H. Illacimus + H. globosus irregularis, lobato-costatus soldes, laevis, serceus, e nuveo fuscus periodio tenni tenaci solutili basique afrorbenti praeditus, entres cellulosus ex also sordide blacious tandem brumens et fulgineus; cellulis minutes parce farctes (etiam in maturis individuis); septis crassis e basi plerementos sub venarum forma irradiantibus medio linea pallidiore notatiset scissilibus; hymenio plano; sporis binis subsessitions brevious ovatis subobtusis velapice papillatis, launt guttulam foventibus, doubodore debili - In betuletis apricis hieme (Nogent sur Marne.

6. H decorust H rotundatus, inreguelis, elbidus, luevis, subglisber, basi absorbente parum conspicua instructus, solicleusculus, intes dense cellulosus, cellulis brevibus vel punctiformibus creverrinas semi vacuis obscure Macino fuscistanden que atroviolaceis; peridio tenui aegre solubili; sporophoris feleformebus elongatis; sporis binis vel solitariis ovato-oblingis utringue obtusis, inex ochraces fuscis; odore debili-In carpenetis et fagetes sebulos is prope Parisios (Boisde Boulogne) subsoletains infrequens, vere.

7. H. populetorum t

H mediocris difformis, rotundatus velcom pressus, glaber laevis siccus albus primum mox sordide fuscus, intus ex albido tindem subrubicundo-nigricans; basi absorbenti vix conspicua; peridio tenui aegre solut birli; cellulis minutis crebris subfarctis septis linea media discolore notatis
sporis binis breve pedicellatis ovato
oblongis obtusatis larevibus quittulum
solitariam vel peures foventebus— Fungus
mollusculus gregarius ore odorus
plane sufterraneus— In populetis
limosis agri Sodunensis et Turoze
(12304) autumno.

2 H(ysterangium) Pompholyx + H. ylobosum mediocre polyrrhizum (scil punctis variis mycelio candido adhaerens peridio crassiusculo molli solubili, laevi candidodemum sordide obscurato; substantia cartilaginia glutinosa elastica pellucida grisea, fungo ad basum crassiori unde radianti, mitura mucosa subdiffmente; cellulis irrequiaribus vacuis septorum parietibus obscurrontus; spori minutis oblongo ellipticis utringue obtuses brevissime pedicellatis laevibus pellucidis roseis, - Fungus avellanae Mag nitud. solidus, durus etiam, intus

ex albo argillaceo-roseus tandem obscurus, odore nuncdebili nunc quasi cornu usti sed potius peculiari, mycelio ramoso copioso. - gregatim in declivious sylvarum subterraneus, mudon Heury aprili - augusti.

3 Hstoloniferum T

H sphaerecum, durum; peredie extus intergre candide crasso glabro laevi sicco facile separabili tandem coriaces et adhaerenti; substantia admodum cartilagmen tenaci elestica, e caera les fusca, in centre fungi muclesformi et unde uradiante; cellulis minutes angustissimis, cavis; sporis oblongs ellepticis laevibus ad apicem basidi. orum subsessitions, gerninis vel ternis brunneis. - Fungus prorum magnitud execcatus corraceus it ad superficiem crispato-rugulosus, radicula unica longa persistenti (mycelii funiformio ramosiproliferi ramo) instructio,

agri Pictaviensis prope pagum quem Bonnes dicunt, octobri.

1. H. candidum

Halobosum, mollusculum, Basi absorbente munitissima eradicata praeditum; peridio terrii laevi candido interdum remoso, substantia interiori minute. cellulosa, ochracea; cellulis maequalibus subvacuis septis angustes quasi homas geneis distinctes; basidiis obtusis hinc et illine prominulis, cystidiis an questionous conicis elongatio mmunt sporis 2 vel 4 elliptices brevebus aut subsphaericis echinatis sterigmatibu acuformibus, cujusque basidis apice suffultis.

In carpentes umbrosis fere lpigaeum solitariumque Legimus octobrimense in Pictavia (couché-Vérac). 1: M. variegatus nob - Octaviama variegata Vitt l. c. p. 16 tab III fig 4.

2. M. Broomeranus Berkeley most M. flobosus irregularis elongato-rotundatus vel sublobatus, primum aureo. fulous demum ferrugeneus, fibrillis radiciformibus solidis concoloribus ramosis crassis applicatis parce extus instructus; peridio crasso pilis brevibus subappressis intentibus tomentoso, acque velne gudem amovendo, entes lutescentitis; substantia compacta, solida; cellulis pleresque circularibus, centralibus majoribus; septis crassis ex albo dilute luteolis, per medium discolorum facile solubilibus; substania intra cellulari primum albida tandem atra pultacea diffluente; spous ovatis base suttruncatio oblusio negris sublucidis, sessilibus, guttalam includentibus - Fungus magnitud.

nuces juglandis et ultra, solidus, odore grate etiam in maturis vel jam exologindividuis debili — In betuletis apricis prope Parisios (Mogent) gragarius rarus maturescit novembre, de cembre— Exsiccatione paullo contrabitur et summopere induratus colore parum mutato.

Nota Nous conservous à cette espèce le nom souslequel M. Berkeley nous en a communqué des echantillons recuellis en Angleterre. Suivant lui, c'est la même plante que le Tuber moschatum Sowerb, Lc. et son odeur pentetre comparer à celle de l'Agaria pyrodous. Ellest d'illeurs extrême. ment voismede l'Octaviania variegata Vitte, dont elle ne differ quere que par les parois deces cellules, colories en jaune très pâle prisque d'un blanc sale, it son odeur que est plus faitle. Ces dissemblances ponnes ne tenir qu'à la différences des climats.

3. M. ambiques Nob - Octaviania ambiqua Vitt l.c.p. 18, tab IV fig 7.

am des sci nat, bot II 19:373-381. pl 17. 1843.

specimens of the species described in vol. V part II of the English Flora logether with such as may hereafter be discovered indegenous to Britain by the Rev M & Berbeley MEL FLS.
[hos 241-350 complete] FascIV Sondon Orme Brown Greenand Songmans MDCCCXLIII

This sets consists of very small specimens glued to the pages with the name but nu further data as to locality.

284 Hymenogaster citrums Vitt. Consists of two dices, one of periaium which is wrinkled with imbedded grains of sand now fuscous black, no fibrils or sible. Stree showing interior has a trace of a fibrilor perhaps a pendial patch near the base, question of sterile base not evident. Inverior now darker than mummy brown

400-500pm

285 Melanogaster Broomeianus Berk
Consists of two pieces as before

quite prominent but scanty
black fibrils anastomosing
atthe franched evidently growing
among mosses and leaf mould as ting
fragments of such debris were presed
into the surface as it dried.
Peridium now Mars Brown.

Consists of two of fructifications

The size of shape indicated

with a very pro
base with pores radiating

from it. hymenum now between

With base much darker

Peridum incrusted with

grains of sand and

of the color of the base, much

winhed and flattened.

305 Hymenogaster blacimus Tul This is the type distribution of Htener Berk but Twasne sales that some copies contain some Hungaris. Consists of 4 very thin slices 3 of which resemble each other closely the other much darler These I will refer to as 305a. Hymenum wood to buffy brown, peridum wood frown with a long concolorous fibril or nyceleal strand, pendum quite smooth. 3056. persolum wrenkly light sent to bone brown.

109 Hymenogaster ar cerebellum now up Hypogaeus; peridiogloboso vel pressionanqueloso albo substrucco ramoso cerebriformi, rimis brevibus parum profundis, humo conspurcatis; gleba molli subelastica, into alba, dem roseo-blacina, postremo ferruginea, o do re gratissimo fungino, cellulis latiusculis depressis, tortuosis septis concoloribus, sporis limoniformitas membrana crassa parum verrucosa, primo cetrino flava dein ochraces-brunnea, plaz grandoso, guttetes plurimis replett 15-18 × 8-10 p tasedis brevitus ramozis bisporistyclinis Inter radices in vas Casuario Horty bolanicities newsis Tul guibus similimum ordeten perein, ut rerebro remoso sulcate

Closed & drawing.

Cavara

Tungi Songobardii exseccate sive mycetum specemena in Longobardia collectu et specedous noves vel intecis romans illustrata curante boct tridiam curara Pugillus III Ticine regi expram typ frat trisi M DCCCXC III.

a ungle thin slice peridium side commanon buff to clay colort darker hymenal side commanon brown Drawing is tawny olive denged with purk spores olive yellow to brownish olive

129

Farlow Herb-Marb, 1920. Seucophleps cetrina Harken ex herb Harkness recd 1918.

Tructification consists of half a fructification in alcohol, a deep reddish brown smooth peridium, large locelli, drying with little shrinking to aduly yellow, localle to chalky white, cavities very large, pendum not shown in prepation Tramal layer of septar. not more than 3 times outer drameter of spores. basidia as figured in Harkness two spored I mycelium of very stender hyphae sterigmata long slender, spores much as figured, pitted or minutely vernicose, spores & septa rusty brown in mass.

46 Sencophleps estrina op nov. Plate XLIII figs 8a-8 b.

Subglose 2 cm in diam citron color, smooth gleba firm wavy; cells minute; spores roundly elliptical, guttulate, white two to four spores form upon each basedum; baseduath attenuate at the point of attack ment, increasing in size upwards toward the spex, oil globules interspersed for its entire length; spores 6x8 pc.

Type No 168 Harkness Coll.

Found and det Manson tax mit

Found amudst Manzanitas, Mt.
Jamalpais, Marin County Calif, april
The fungus imparts a red color tins
to olcohol when immersed.

Study at Farlow Herl. Week Mar 29-apr. 7

Sencogaster Phlytospora filvimaculosus 34D Type Cold Spring Harton & J. New York. Blakeslee leg Subterranean near log, In damp wood aug.

Fructifications 2 1/2 cm in diam globose, cumamon buff spotted with lawny fibrils concolorous scanty incom guntilarge at Base spicious; peridium 400 prof closely woven hyphae very dense witha tendency to form basidia in the uner portion, the other hyphae probably addinging the appearantes gleba warm buffor; cavilies partly filled with semi opaque gel; septa 150-180 Thick composed of closely woven M shender hy basidia pyrom 7-8 x 5-6
on pedicel 90 m long sterigm ata 2 m conical
spores hyaline or brown in mass with a prominent marking simulating a germ pore ovordal surround verrucose surrounded by a thick gelatinous covering 8×10 pc

Tuberiformis Corda det 3+ Dodge 1934

Melanogaster variegatus 7ul Spægelslust 1900 Hesse Coll in Herb Farlow.

Fructifications 3.5 cm + more by 2.0 depressed globase to megular datsdark bone brown; fibrils abunda prominent to almost free on underside disappearing above; pendium 450pm thick of coarse thick walled hyph the outer dark brown shading off to a lighter yellow brown within cavatres filled, basidia notana definite hymerial layer gleba Hack mottled with the blush white "veins" septa showing a scissile tendency, 300 pt thick with a layer in the middle 150 thick concolorous with the peridium and of the same color as the unner peridium, outer layers next the sporterous tissue nearly hydre sporterous tissue quite hysline basidia clavate 3-5 spoud, 12-14 × 7-8 p; stengmata

short; spores ellipsordal to Ishape dark brown under microscope, proming ent denses body? nucleus, cell wall quite thick 10 × 7 µ

Octaviama asterosperma Vitt. altmorschen 1900 Hesse Coll Farlow Hey Fructification 2 cm in drameter, warm sepra to bester & bone brown male 1920; subglobose to flattened surface irregular but no definite 90-100 fibrils; peridium simplex outer portion brussels brown otherwise hyslene 450-500 p of coarse then walled hyaline hyphae lovely are gleba russet malcohol Mar 1920, drying lighter, cavilies small irregular filled with sporesatmaturity; septa 50-60 pc thick homogeneous of compactly woven hyaline hyphan 2-4 prin dram; basidia

spores ellipsordal to globose, 13 X 11 pc

spines My etcup to 2.5 plong

Octaviania asterosperma Vitt var

Marburg 1901 Hesse Coll in Farlow Herb.

Collection of four fructifications which I will call a btc. a 1×1.5 depressed alobose b 12×2 cm scurfy by peeling up of periodial layers c 2×3+cm with prominent sterile base which approaches a short dendroid columella not distinct from septa with mycelial strand below not evident in smaller fructifications

c. is ochraceous

buff to prouts brown mottled, bis current on buff to suff brown. a is light buff to

buff to souf brown a is light buff to warm buff. gleba colors about the same, gleba texture much coarser in a. Pendum in a 1500 pe thick duples? altho both layers of same color and consisting outer portion brown, inner yellow

31 Hysterangum clathroides ...

Thudoboe mtalo doutre mu deserre npabulbroe, шаровидное, у основания иногда морщимистое. Kopseboû wright wwweller brombucmbin, kpronkin CHARSTOND - Stribin. Nepudia doberbno momerbia, lesko ombruktellich ombruede, readkin, cuatara CHIPSTEND- dirubin, nomento skelmobamo-cupbin. Jeseda xpellesbamail, macmuynail. Deznelodral mp mkarb striobamas. Kamepbe Subaromo cratada Stribul, noment driasomal cropo-zerenbull ull oubkobaro uprma.

Cnopbe spodourobambul, suluncoudarbubul, 1 na konyr mynbuk www Hrchacko crysnemsbul, 12-16 pe dunbe u 4-6 pe maparte. Oseno 4ka use s nothing

Sezubrennal, readkail.

3 anaxz Henpielmubin (Hanorlunaem prothy no y). Transvarue 100: I momb bud's, Muscainobokie odpazujo homoparo de chapaus speneru narbitatel de Fungi rossici exsecuti Mydane Mebckaro, Romapoba u Транwell. , xapakmepento chemuro dobombno moncombrus, reladhumb, mythenems- Freebull nepudients. The ocnobania no modobaro meria, docmuratoujaro unorda 2 cm. bli diamemper, repukperulemal kprrinkiù, brombuambiu Truting body longs or wagelow, globose and

Brefeld Untersuchungen aus gesammte gebiet der Mykologie 8:177.1889. Olsen found comdea of Formes annosus in nature, exact statement Heterobasidum sp. Fram. radiciperda. Haresteene Hystrangum op? ahare Bedapra (Junuhhabis).

Charles up hologram op? Haid on Harles Khunskauls y Mocket chow up., wob grunn p. makeres Bahamob's (Inevandelle der de Hat
de St. Pethrob. Lect. 1301. XX, 1888). et flore fermes 1899-1900, p. 77478 "III ecueld (Healeff) sphazbloams na -2-02: Bs reportable zoch Baren (meddelanden of Boc. pro farma L.c.p.81) Cnopbe perscharble Summing 30 18 p. sessibility in not sod 2 mile bis frogralls of crossum Intoone Thymandele see uft hemedones ohymande deredonbeed mpodresserbe Ha nobeposnosmu odend predho. Hore unsupply, transplue obymbilowands ypubly pac-Hredrosthe Source mempohum cropanem. Musperado monthuld reals om Fredroughles nepublealle u Arrementer ust foreboulds creadstands downe Gopuns a littadime (cp. Introno, tung hypogoarp. 80. t & makones & Barnauldpezo (umanus) [cp. Mattrako...
Malg. 14: 1900] one nobocobamis suespes beers his Freshir, Ropinsbudibu unrupts unughis. Diunds, I Howais

Hymenogaster decorus Zul Eisenach 1899 Hesse Coll in Farlow Herb Fructifications depressed globore gibbous to slightly irregular. 0.7 x 1.0 cm and smaller pale medici blue and lighter spotted with Tawny, peridium 170-190 thick hyaline composed of a single layer of large trama composed of hyphae giving appearance of vesiculose aleba mottled tawny white pregular partially heled with spores. Septa septa of coarse loosely interwoven hyphae hyaline 120-150 µ thick basidia oblong \$\) 6 × 30 hyaline 4-spored \$\) sterigmata conical short thick, spores citriform, rough reticulate or pitted, pits shallower on the apicula 15 X 9-10 with the aproulus 2-3 pr long Shunts rounded at first colorless then Towny in mass, old gold under the microscope,

Hymenogaster tener Berk Caldern 1901 Hesse Coll in Farlow Herb.

Fruchfications globose 0.8 - 1.0 am in diameter wood brown to Juster drab in alcohol Mar 1920; distinct sterile base with radicating fibrillar myceling with radiating subpolygonal cavities peridium thin 70-90 pu thick of very fine closely interwoven hyphae hyaline gleba tawny appearing darker on account of the large deep cauties when seen in cross section, septa 50 probleven hymeral layers, these section to periodice 12-15 pr thick of large thin walled hyphone appearing vesiculose, basedia oblong 2 - spored 20 x 7 p sterigmata short slender; spores citriform heavy walled only slightly roughened mamillate. 12-14 x 7-9

Hysterangium Rhisopogon clathroides

Under leaf cover, beech forest Punta arenas R. Tharter Magellanes Chile Feb. 1906. For tharter feld to be p. 145.]

lungle fructification globose, 2 x 2.5 in diam sepia, preserved in alcohol drying

fibrils scanty or none but with prominent radicating mycelium at base; peridium thick 1300-1500 pe thick simplex vesiculose of large thin walled hyaline hyphae simulating pseudoparenchymatous yellowish olive under the incroscope gleba deep grayish olive; cauties irregular empty or partially filled with spores; septe 140-160 pe broad, of small gelatinized lossely interwoven hyphae; basidia linear, four-spored, 15×3-4; sterigmata short 14×44-5.3-4 pe almost fusiform

Columella extending to the center and disappearing in septa less than I mm thick.

Rhizopogon piceus B4C "germinating beneath the surface and by to expansion causing small areas of a handbreadth size to cleave off. Black or brown after exposure, Rhizopogon process Berk: & Curt: On steep banks Feb 1855. / Hong Kong U.S. Pac. Ex Ex (292) 000 3000 [Type in Curtis Herb attarlow Herb Studied March 30, 1920. Consists of 2 fructifications with above inscription on a card. Fructifications drying 1X2 depressed globose nearly black & somewhat shing probably treated with some hund of preservative saf Surface much wrinkled, very hard. Fibrils not evident; gleba tawny. Peridium thick 12008-1300 i thick, compact simplex of hyphae 3-6 pr in diameter with numera larger olivaceous bodies 8-10 p indiam. gleba tawny or lighter, cavities small wegrly septa 25-50 p homogenous of closely woven small hyphae; basidia 5 X 2 p. 4-spored Heriquata 2 pr long & pores ellepsoid

smooth hyaline 8-10 X 4-5 p

Hysterangium clathroides Vitt altmorschen 1900. Hesse Coll in Farlow Herb.

Tructifications 1.5 x 1.0 cm cumamon dryinglighter to Sayal brown, depresseglobose; fibril small appressed to peridium light cumany on under side; peridum with outer portion flaking off in patches as in R pannoeus.

duples, outer layer of rough much branched

brownish hyphae 5 µ indiam; inner same texture
as septa
gleba buffy olive; cavities irregular empty; septa 80-100 µ thick of hyaline large loosely interpephae; basedia pyri form, 2-spored, 10. X5 p, sterigmal shorton none; spores fusiform olivaceous, 12-14 X 5-6 pe smooth

Hysterangium clathroides var Vitt 1900, Hesse Coll in Farlow Herb. Fructifications 1.5 cm in chiam pecan brown to Roods brown in alcohol drying lighter, globa yellowish olive fibrils resembling flahymycelium.

peridium outerlayer vesiculose 200 m staining with safranin, separating from interior, inner same texture as gleba 175 pilly gleba yellowish olive; cavities irregular small, empty; septa 200 p thick hyaline of closely woven gelatinized hyphae basidia pyrform 15 X5, 2-spored sterigmata short and thick frequently adhereing to the spore; spores fusiform - olivaceous thick cellwall 16-18X 5-6, some spores slightly curved.

Rhyopogon provincialis Tul altmorschen 1899 Hesse Coll in Farlow Kerb. 3 or four fragments almost black, pending easily separable & mostly peeled off.

Octaviania rosea Harkmass California in Farlow Herb (see additions to p. 35) Columella hearly percurrent of the same texture as the Depta 30 operadiam 60-80 pethick peridiam latex vessels present.

Species = arcangelliella rosea (Hk) 3+D, comb nov.

Rhizopogon roseolus (Cda) 31D.

Under serul pine (rigida) M. side of
reservoir, Arlington Heights, Nov. 1876:

Color light brown with yellow cer D.

Herd R. Thaxter det March 31, 1920 CWD.

Whole fructifications.

Rhizopogon roseolus (Corda) 242 Under yellow pine in sandy soil, N. side of arlington (Heights) reservoir Nov. 96. Herb. R. Thaxter det March 31, 1920 Cwo Sliced fructifications

ibigg

Rhizopogon roseolus (Cordiz + S) Under Pinus rigida near reservoir Arlington Heights, Mass Sept 1898 R.J. Herb Tharter det Mar 31, 1920 CWD.

3. [R. 7haxter] Surface uneven, chack white with durty yellow flecks, gleba milky white. spores & Under beach trees below leaves Cranberry M.C.

Ang 6, '96.

Single fructification 2/2 XI cm drying 1.5 X8. chalk white with durty yellow flecks drying orblood red to garnet frown with uneven surface shinings fibrils black shining free in places: anastomy

peridium duplex, outer layer 20-30 pc thick sloughing off in places giving the uneven appearance mentioned in field notes. This layer composed of coarse parallel-to-the surface hyphae septate colored olivaceous brown under the nucroscope, the inner layer 40 - 51 pc thick of dense granular reddish brown hyphae, very closely interwoven

gleba milky white becoming cumamon to clay color on drying; cavities round or polygonal by mutual pressure; septa then, 50 - been thick scissle composed of coarse hyaline thin-walled hyphae; basidia Imear oblong 7K12 n 2- spored stengmata 3 p long; spores olivaceous under microscope

verucosa with a gelatmous sheath 7-9m in diameter.

Hysterangium purpureum Rhizo pogos Puntas arenas Magellanes Chile in beach forestabove Un?) Mar 1906 Hypog No12 red lavender Hypogae No12. On widely spread mycelium in groups of a dozen or more over a hundred in one lot. Bright deep lavender becoming purplish and dull purplish red on handling and dull purplish red when fully matured. Springing atom point from ropy mycelig Person thick white below surface separable. Gleba purplish brown blackish brown in fully matured spec: a ramose (?) gelatinosis. Bank mwoods above um | greates diam. mostly smaller spores Fructifications up & 2 cm, drying bright deep lavender becoming purplish redon Canding of dull purplish red when mature becoming dull purplish black in alc gleba concolorous. see p. 154 dras

T. tohnel. Thagis the 1 200 ". Mittein r. Kakad wiss & ... nath Naturn 12. 261] 117:983 - 1032, p/1-4 1017) 2 Hydnangium javanicum P Houn Hedu 1901 p. 27... Basia gina. 20-22 X8 p. int one sa . 12-14 put Stace . il 20 put en! tructifica". 18-2 | mm X 111- 17mm weak to the rangen Wandelin smoit, upper surface etch reidend be coming grape in Mic. Inder Basis is derseit affe artiglemargige; his it en die Hyphe Atraige 1, 2. 3 Hymeriogaster javamien a op Requiremendisco, fe. t.

147 terbélissen ser ca 2/2! « se sete well in hoher Hyce a saigning Imm breit, 7/2 mm hoch, Geruchica uniq. Pendie settanher line. 33. Help dick, yoursell its; in Schichte locker, answer 15-14 15-2 higher the wonest the transfer the Laune (1266) to pander Sp. - com soil premy angeschung onen 5 fet 11 ju dichen 12 plan -- tele der zu Ra. 80 p althorn, his lon traite. Je Globa ans in ... Ladiace.

durch bis 126 pruche bonemander gitre i ... welche mitalin aus 26.6: " " 10 bis 14 p großen, 30 ma Basidien destehenden Hymenoum bekleraet, 2 ind Basicien empor Sterigmen fädig. it in groß mit den Basidien walne id der Sporentildung rasch verschrungen Trama der kommerui. d' dreschief a: muruschiefte aus rarley, 4 bis by hicken, we had a lanfonden Hyphen Serleit i Guyse Parenglis mycelin amiacon. fast zicherani ra dunam Faste ala ...

149 in at che satisfice - in so de for in injury it is and in the Em Hamuelow a st. ty Tiloca on ava Ichia Excupla de Ruzer, diemanto est pleichen. Il. le se l'amont le inhubere Hysic ogasterar to digte 4. Bulliardifettran nachie stehen. Du lairdu, haberststeis mur 2 . Programmer, abel simple the said the said as her Ver comme pany se Bon and Lings. Stripmastatureduch - Best a trug Reins word I have war a gratifical at - derlain 10 1 Conditutora microspera hap

kentlegorm + ha ig ? I ... " et glattifestiller og ange. a to mor in de lichen Bucker, and it is be in der mitte to ver/ze verz de la prince morphalikliche, of andartig , win (der allechel or programme (c.e.66, 64); Hence uzgan (C.C.128D, 103D, 147, 140, 12), analis inoscio den, it ser Mirte de surce rusgihen in da single Chrisman Kon ill as many and the state of t

fir ig to Spe it. Hyp " ilicia de 12. 11 2. . I may the The second of th Pseudoparenchymy - volume of the second of the second the telegraphic of the ÷13. - 1. - 2 - 2

Hysterangium purpureum 3+D (cont 145)
fibrils none, columella prolonged below
into a stipe monlong with many
branching rhezomorphs; columella
dendroid reaching leyond center of
fructification; peridium pseudoparenchymatous 750-950 µ composed
of small cells on the outside larger
with up to 16-17 µ in diameter; gleba

prom 25-95 p in thickness gelatinger of smallhyphae in with larger hyphae of smallhyphae edgersepta live conducting on basidia 4-spored 25-30 x 5-7 p cylindric spores sessile 13-16 x 5-6 p long ellip-sordal or tapering toward basidium obtuse.

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